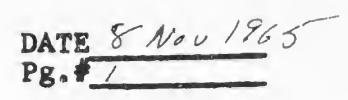
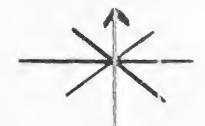
SI-MNH-958e 7-28-64

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA DAILY LOG -- E





Noon - in port

ime	species	#	dir.	heta	remarks		10
1300					- Clean Harton togen ofre	mahing.	
1345					Bosin observations after	aerial pretures	
	Pterodrona				Vaken		
420	BREAM	1	N.D.		Looked most like Dark rump	but had only	
					moderate black edge to be	a line sedeo of	
					underwing and is to be now	and the state of t	
					toreland only very brown	- sacred, while	
					forehead visible; could have	keen &FP. Sat	
11/20	1 1 1	,			on water, flew w/o areing		
1429	Wergetail	1					
1430	'1	/	5				
1777	Pom Jaegan	1					
	R. F.	/	N				
1502	Brown Booby	1	K 11		emm.		
1502	Wedgetail	(N/				
1509	13	1			- got off the o		
1511	aspetail	/		- 14			8
374	Nawello	/	-	zt	slightly smalls	than	
	5-4/-1.11:11		55		wedgetail, straigh	s rapid flight	
	Sody/stenderbill Thear.		A A			,	
- 3 \ \ \ \ \	Shear-Pit	,	5			, > {	
1526	White-N. Pet.	3/	ME				
1020	Ptarod.	1/	0				
528		1	6				
1536	P. Hypoleuxa	1	SE.				
1580	13	33				pt /	
1580		1	5w			1-4 4	
1542	Pterool.	12				W 4	
1543	Loor.	-	10		_	67 1	
1543	PFB.	Z	11/			Pro T	
1513		-13	11/			RFB \$5	
1545			56			WYT /	
1546	Termsp		500			NS 1	
1547	P. Kypolen	1	5			55 /	
1548	Tern sp.	3	N			5-P 10	
1550	Shear- Pet	3	N			WNP,	
1551	1 1	1				Bild 3	
1553		63	0			-3	
1554	Pterod.	3	O		00//	Ph 7	
1556	Storm- 120	1		-	be. w/wh. nmp.	Venn 8	1
1557	8 Ken-Pa	61	NW			CN 1	
1602	Storm-B	2			0.0 1.1	SP 4	
1605	P. hypotenia	1	na		bl. w/ a. sp.	51- 4	
1610	"	2	NW			50/2-	
1612	Storm Pet		ww			7 / 5 /	
1, -			1 vay				1
1615	Tem sp.	3 /	SE		first and low, dark?		

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA DAILY LOG -- E

.

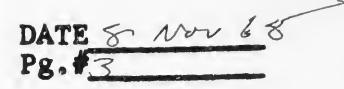
DATE & Nov 1965
Pg. # 2



Noon in port loc, remarks # dir. het. species time SE P. hypolenia 1 5-12 1620 Wedgetail 1624 P. Lypoleuca Tem 8 PL 25, 1626 Sooty Tenn 1628 PL Pour Jaegen 1628 Storm Pet 1631 P. hypoleuca SE 1632 1435 131. wing Pet 1640 Stocks Pet 1640 P-hypoleuca BWP 1440 9 F Betal 16 43 Pom Jaeses 9FP 5W 5E P. Apolevca 55 B-WPetrel THE BINA Souty - SB Stear 1 1652 Shear-Pel 1655 1655 Ly Presolvong, 5 P. hypolenca 5w flushed; small Jaeger sp. or Shear-Pet, 1654 Bird dark above, (ght below except wings, no write in wigs; flapping of stilling over surface P. hypolenca 1705 Stormfetiel Sooty. Slander 3 Pan Jaeger 1710 5W 1712 P. hypoleuca 5 5 1713 14 1717 E PorTarger ? W scattered over horizon Shear Pets 1722 P. hypolevia 4 1725 /ern ep. 1725 Wedgetail 0 1727 shan-pet 1727 P. hypolerica 1727 Wedge tail 1732 p. hypolena 3

SI-MNH-958e 7-28-64

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA DAILY LOG — E





Noon - in port species # dir. hgt. remarks loc. time Wedgetail 10/ 1736 1736 P. hypoleuca shear Pet Thearwater 1740 - "It's pink, whatever it is" - ... K. Amerman Shear - Pet 1744 5 So of /8B 5000 3 Tenn Wedgetail 1 8 xorm Per 1 8 ooky - 8 While, seventing 5 8 unset cease obs W-2 P1-2 5-10 - 7 55 - 2 Ten - 1 SP - 1

SI-MNH-958e 7-28-64

SE SW NW

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA DAILY LOG — E

Pelagic Bird Survey DATE 9 Nov. 65 Pg. #

		E		N		
	time	species	VE #	dir.	hgt. remarks Noon: 19°47.8'N-161°03'W	loc.
	0625				begin obs.	
	0627	PFB	/		adult sitting on the	
064k	0630	summie				
	0630	Bhen Pet	1.	Q	sitting on 1/20	
	0634		1	Ø		
	0702	''	1	SE		
	0709	',	2	TE	· Bind 1-1	
	0709	Red foot	/	SE	Ad. 5-P 9-14	
	0709	c. Frigate Wedgetail	1	SE		•
	07/4	Book, Tem		SE	WT 8-9	
	0715	11	1	SE		
	0715	weightil	1	SE	G.tris 1-1	
	0717	Sooty Tenn	3	SE	ST 13-36	
	0717	4 4	3	8=	W77B 2-2	
	0717	WT Tropic	1	06	on water Mero 1-1	
_	0184	wedgestail	1	5		
F	0730	Sooty Tern	7	55	P. hypo 3, -3	1
	0731	Wedgerall Shear-pos		54	STorm 1-1	
	10,23	wedgetal		56	5-5 2-2	
	0790	Shear-Pas	3		GP 1-4	
F	0790	Sooty Term	7	56	112 764	
	0782	Shen Pet	17	156	43-79	
	2748		2	Ø	TO O O O O	
	0755		1	SE	Flochs 2-14	
	0800	Shear-Pet	2	5E 5		
	0802	P. hypoleuca		7		
	0807	11		SE		
	0867	Stanlit				
	0807	P. hypoleuca		G		
	0807	Sooty - Slender		1		
	No Lo	lilled Le m.) / =		
	0810	11	1	SE		
	0815	Shear-Pet.		5		
	0820	Sooty Tern	1		ad-collected, rime 1 mm	
	0823	lern		SE	1 Dealen 0	-1
	0813	11	12	SE_	ad-collected, som / mm	
	0813	WTTropic	1	a		
		OCH /.	12		lad, limin	
6	0831	Golden Play	4	Ca		
	0917	Sooty len	12	SE		
	0925	S-oty T.	11	5Ē		
1		1/1	1			



SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA DAILY LOG — E

Pelagic Bind Survey DATE 9Nw/965 Pg. # 22

time	species	#	dir.	ngt. remarks Noon: 19°47.8'N-161° 63'W loc.
0930	6. Plover	2	G	
0932	Sooty Trun	1	SE	G P
0933	Bird	1 -		aH20
0935	P. Lypolinea	i	W	
0937	5 ody. Slender	1	58	Myro.
0943	P. hypolenca	,	<	99
0950	SootyTem	1		
1954	S-0 00	5	5	ad + inam at a
1955	Sooly- Dande	-]	S	A A
Dara	f. hypolana	5	a	W VIB
0959				1100 - RMB , doesal fi
1002	1. hypolene	1		Whate. L
1013.	Booty Tem	2	SW.	whale ca. 35' long.
	Wedgetart	1	_	- I I I I I I I I I I I I I I I I I I I
1021	3 route	2	55.	- der
	Br. Book		0	
1033 2	Fein 77	1	55	Imm?
1104	WTB	1	0	
170	RTTIS	1 1	0	coll 1110 - KA
	W7713	1	0	
1335		1	C	Ship underway again after recovering RTTB.
1339 (1 1339	No detail	Me and	0	
	too	1	1	
	Vedgetail		E	
18/8/	Ayplean.	2	2	setting on 1/2 B
1418				Dti r 1-1
1443	Thear-Pet	1	NEZ	no bid willering passed over ship E,
15239	p. White Eye	ス	w	hust of "twittering" passed over ship E, no hido visible Nodytul-1
1332	W7/3			
/	Horm Ret	/		Dat by slick (ships wake?) ST 4-7
1542	· hypo lenca	1		13 also in shick
7	2	1		3 also in stack
/	The faces		SE	Ad. 55 3-3
	wedgetail.		55	WTS 5-5
	· hypolenca		SE	
	hypolenca		SE	GF 1-1
		3 -		on H20.
614 2	Lean-Pet	2 -		W110 3-3
1620	11	2		
01	hear Pat		CILL	MH20. Total B-WP 1-3
	Joddy (m)	- F	SW	V/ <-> 5-P 4-6
1627 ((na)	1	NE	41-52 ET-1-1 BFB 1-1
16201	t. m		0	
505	con Stender	1	3	W-eye 1-2
	1 WHI Shew !			Stan 1-1

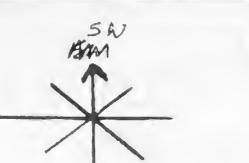
SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA DAILY LOG — E

Palagic Bind DATE 9 Novembri 1965 Pg. # 3



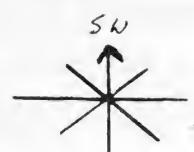
ime	species	# dir. h	gt. remarks Noon: 19047.8'N-161003'W
	P. hypolenca	1 01	
1632	WITB	1 Sw	
1643	P. hypoleuca	1 500	
16 45	WITB	1 5W	
1	Blw. Petrel shear-Pet		
	Pterodroma sp.	1 S 1 NE	very dank back & top of head, very dank & broad lead.
1715	B.W Petrol	1 NE	strailing underwing borders. ??? JFP Size.
1725	WTTB	135	
1733		3 8.	
1805	and the second s		agrant Samet.
			The state of the s
-			
			P/ 2/2
			Ph 2/2 WTT 3/3
			Bwp 2/2
			5-P- 1
			PT 1
			RTT - 3/1
		And the second	PTT - 3/1 12/
		A CALLED TO A CALL	
1	1		

7517 16459



Pelggic Bird Survey DATE 10 Nov 1965 Pg. # 1

	time	species	#	dir.	hgt.	remarks Noon: 18°10.5'N-163°46.5 W loc.
	0645	1.77	-	4.		- Begin observations Junioe ~ 0648?
	0720	1. hypoteuca	/	N		stat not Sound Worke-eige? 1-1
	0148	G. Plover	1	0		22-2
	0736	Shear-Pet	1			Leand not seem Pters 7.7
	0800	Write-eye? B-fB ooly	1			Leand, not ocen Plero 2.2 BFB 2-2
	0872	(T. flover		a		state of hypo 6-7
	08.50	Sorty le	4	SW		W773 2-2
	0900	Scroty Ten Elean-Pet	/	NENW		JFP 4-4
	1005	Stone Pet	1	34		6F 2-2
	1007	Sorty Shear	1	SE		To Salar
	leva	477B	D'	0		55 3-19
	1013	Pterodroma	1	SE		- whole 55 3-19 Storm 3-3
	1015	Soots She as	1	.5		Ther lining.
	1025	3F Book	/	5		57.02.4
	1030	From Pet	1	SE		A., Love + sat behind? Y
	1048	1	1	J		WTS 1-1
	1 (Foots, Fran	3	NW		43-59
TF.	A SECTION AND A	" Shear	7	5		
	1107	P.hypoleuca	1	5		Florel25 1-5
	1/25	6. Plaver	2	5 W		
	1	G Frigate Wedsotail	1	NE		Total Sigetings - 42
	1208	dF1 etrel	,	5 W		
	1210	Storm pet	/-	5E		Lancha tigas
	1225		1	130		
	1230	Shea Pat	7	-		
	1235	P- hypoleska	1	Œ		
	1237	Shear Pet	1	1-		
	1240	P. hypolenca	,	4/6		
	17.80	The Z-Est	1	NL		A 7.77
	1250	1		-		- The form part 2-60 h
	1305	phia la		5 E		
	1302	It retred	1	É		
	1304	Physoleve a	1	8		
	1307	Sasty Sen In)	54		
	1318	Scoty Standy	1	5		
	7	Sterodom a.	1			
	1322	P. Lyn Jen on		a		



						Noon: 18º10.8N-163046,5'W	
	time	species	#	dir.	hgt.	remarks	loc.
	1350	BWP	1	Ø	1-4	BWP 2/2	
		P. hypolenia	1	SW	1-4	Fh 9/6 55 49/11	
	1410	Booty Chear.	1	SOUTH		5P 4/11	
	1419	Asorm Petrel	1	NW-		- black/w. rump. 5-p 13/4	
FF		Shear-Petre/ Frigate	8 4	}	The second space of the second second	-F/= 6/3	
	147-	Souty Tern	36	_)		9FP 45/2	*
	1447	Socty Shear?	1	5		6/3	
		P. hypoleuca	2	E		I took plack	
	1455	P. hypoleuca Shoan-Pet	1	5.5E		W 3-1-	
	1458		1	E		135/35	
	1459	Stonn Pet	1	£		147	
		Souty/sience bill	1	5			
	1511	955	1			on water	
	1572	Soot 3 84	4	5			
	1515	2. hypotenea	1	E			
		Sorty 3. 5%	1	5		Done 3 times from 75-100 ft, at angle,	
		Eugale	/	ME		Done 3 times from 75-100 ft, at angle,	
		Sooty ? 8h	1	5		2	
	1533 -	7		and the second section of the section of	Angelius of a later than the first than the same of th	I large school duna jumping	
	1535	Show- Pet	1	E		distant	
	1540	Fter drema	1	E			
7772	7	File Tem	15	+			
		The state of the s	100				
	BOY	MA Apronio	1	ME		- 00 ·	
						flying after one another.	
FF	1548	Sooty Term	15	-		- at last 4 imm.; one ad + young on	
		a Frigate.	1-			waller forether	
		How today	7			Feeding a tively Fish jumping.	
		If Petrel	4			I work to so Jumping.	
		1. hypoleuca	2				
	11/14	A P D	3				
	,601	A. hypolenca	7			-flying after are another - from flood	-
-	16 31	Venler bill	30	£ 5			
	1652	Shear Pet		<			
	1658	Sooty-Slender	2	6			
	1700	Ptuodoma	2	SE		- shinning surface, said on 420 insiefles	
	1 19	8 tom 1:6	,	5. =	15 -	phoenicald. of appeared lank	
	1730	Meroll op	./ .	58	1-3	on throat, and derwing, into	
	1744	Svoy. Stenly	1	5		2. 15 2000 4000	
	174	11	1	5		identification	
3.5	1745	Shew Pet	,	su.			
			'				



Pelagic Bind Survey.ber/965 Pg.# 3

·ime	species	#	dir	høt.	Noon: 18°10.8'N-163°46.5'W	loc.
1756	frigate kp)	1	a			
1808	wad zetail	1	1VE			
1810	frigate kp.) 8 Rean-Pero Wed zetail If Pertel	1	a			
					Eagranant Sunsel	
			-3		F-/	
					5P-1	
					W-1 2FP-1	
					4/4	
-						

Palagic Bind Survey DATE 11 November 1965 Pg. # 1

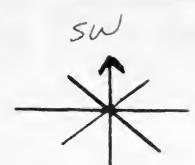
	time	species	#	dir.	hgt.	remarks Noon: 15° 55'N - 166° 50.2' W
	0655-					- Begin observations
	0748					
	0713	RTTB	1	O1 _		Apparent Sungise
	0715	Phypoleuca C + 10	,			feeding.
	0719	Sooty - Slander	}	SW		
	100	1/2 ///		SĒ		RITS 4-4
		I TOTO TE PARTE II	-			55 9-104
1	0 143	1. husaler ==	/	\\ \(\(\(\) - \)		Lead; 6-5
		I TOO NOT A YOUR AND A		12		hypo 6-7
	0/50	1. externa	,	sw		Pale 1-1
	0754	Petrodiana Shan-Petrol	6	2		
	0755	Shace- Petrol	,	E		externa 1-1
	0 000		-	-		Whale 15 Pting 2-2
		Sooly-Blanda	2	5		5-P 3-3 Total
	0806 -					LU Rale. (-) Sigetin, 537.
/		Reach's Type		SE		WIS 1-1
1:25	0878		15	5		BB 1-1
	1000	Phypolenica Pleadforma	1	ルミ		Pin 1-1
	0834	Gaden Hover	1	3		BWP 1-1 37-133
	0839	Senkerhill?	7	55		
1	MSKSTA		100	34 -		- then milling around in front of rain
	0914	Leachs Sp	1	E		
	0787		1	56-		
	600 1014	Storm Petrol	1	5 —		- black/w rump
1		Wedgetail	1	W		d - 0.
		P. hypolenia	2	SE		access.
	1024	Shear-Pital	4	W		
	1035	Ba Booling	4	5		- immalure
	1047	Pintail	1	5		9
	1164	RTT B	,			t a unin
4F	1111		7 B	5		n Hzo
	1125	Sooty. Stender	30	2		
		hypolenia	1	M		
	1/27	.,	(5		
		500t / clender	1	5		
		Shein-Put	/	Ē		
	1157	RTTB	1	5W		
F	1222	Henderhile:	147	5		
	1242		1	5		
	, & / 2	RITIB	1	C		

520

Pelagic Bind Survey DATE // Nov 1965 Pg. # 2

Noon: 15055 N-166050.2'W

		•]	1.0		Noon: 15°55 N-166°50.2'W	100
	1308	species 177713	1	NW.	hgt.	remarks Pink floor	loc,
	1319	phypolenia				RTT13 /	
	1325	1,	,			shot, not found Ph. 5	
	1420	Road's Tayor.	ł	0		4 =	
	1425	P. enterna	1	W		P. e. /	
		- Longeran	1	E		9FP 3	
	1428		1	W		GF 1.	
	1730	I hypotica	1	a		55 33/4	
	1430	G. Frigate	,	a-		9 \ 5-P 2	
	1436	Socty-Slande				tadult.	
	11439	She Pt	/	3		Pt 1	
	1443	I Pletiel	/	G			
	15/2	Of St	7 1	NE		\$1/22	
	15 \$5	Shear Pet	1	151			
		It i'eled	l	5 W			
	1555	1. hypolenen	1	SW			
	1556	Sorty- Glanden	1	5			
TF		11	10	-5			
	1632	Estan Morren	7			coll-9PT	
5	1739	Booty-82drlia Pterod. ap. F. hypolevea	200	5			
	1815	Fhillippe.	1	5 5E			
	1822	storm Pet		SE		- Leache in Mipe	
	1330 -	,				-SUNSET	
	18:30 -			- Andreas		CLOSE DAYlight obsERVATIONS	
	1						



DATE // NOV Pg.# NOCTERNAL

time	species	#	dir. het	remarks loc.
1835-				SUNSET
1853	JFP.	1	NE	BEGIN OBSERVATIONS. WIND NW. 100% cloud cover
1950 -				Rain == 11
2010	Tropicbird	1	0	- Rain squall.
2030	Sooty Tern	2	NW	
2044		1	2	I seen, 2nd heard (single note)
2046	Bird	,_	,	- Wideauake Note.
2050	coty tern?	1		Larger than tern-silent single note heard.
2055	Bird			single note leard.
2058	18	/ -		silent, tern size
		/ -		" Possible WITE
2/23	Sooty Tam	1	N-NW	calling,
2/25		7	N-NW	
2/21		/-		heard in addition to
2/35	11 11	2-	NW?	- 1. 1x i compart on
2/4/	11 11	2	Nicia	rear 1 , with calling
2/8		3		heard 3 seem, one possibly in inclared
2.15%				heard seem, one possibly in
2200	4	2.		ade to
225		7 -		Learn to 50 minutes, seen 3 heart - 55 26
2222		3-		Zadulto 1
	" "	2-		Ledults Imminature, sient -50 heard - 85 side
2327	11 11	1-		
0100	4 1/	6		ralled once-Rd.
0106	11	1		Ad. calling
0153	11	1		N. 11
0300	Bure	1		possible the died in the Formal
0 800				possibly shorehind, possibly Easty (calling)
				(Chenralions
				9EP
	4			
				12-1
				10-1 Brid-345
				2216 - 3/M)
				57-27
	()			

9/153



DATE 12 November 1965
Pg.# 1

Noon: 13° 52.2'N, 169°-31.6 W

Office of 2 surphinated of 5-500 of 5 sour of the order of 5 sour of 5 sou		time	species	#	dir.	hgt.	Noon: 13-5d.2 N, 169-31.6 W remarks	loc.
0725 South friends to 1 3 Small 0725 South friends to 1 3 0725 South friends to 1 3 0725 Sient friends to 1 3 0725 South f								-
2736 aind 2747 5 F P 2758 3 See pot 2758 3 See pot 2759 5 P 2759 6		07/2	Sooty/slender bill	\$7	5-SW			
2012 Sind 2013 Steen pot. 2014 Steen St. 2015 Steen St. 2016 Steen St. 2017 Steen St. 2018 St. 2			souty/slenderbill	1	5			
075 5 FP 0 085 Sheepet 1 0 5 086 Sheepet 1 086 Sheepet 1 0 5 086 S		1	Bird	1			apparent sunrise (obscured by clouds)	
0803 Sharpet to 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				1	SE		- seen by bridge.	
DET SELLING ST. 1 J. 1		1	Shear-pet.	1			15/1	
1		1	P. hypoteuca	i	050		'/	
TF 0857 Society Man 8 1 NE FOR Society Man 1				1			Bril 1	
TF Costs of Scholars 1 1 NE Service 1 NE Service 1 NE Service 1 Se		0817	Shear Put)	JW		9EP 4/4	
TF Fred Sorty Schrist 1 S SSV Ad of Chains Fal. Fr 4/13 KNTS 2/2 PRO WITTS OG TO STAND 1 S SSV AND SS STAND SS	-	0819	P. hypolenea	1	NW			
TF Freedom Socry Scholar Will Socs Strong Fall From 2/2 Front Socry Scholar Will Socs Strong Fall From 2/2 From WITS Office Con Socry Scholar School Fall From Strong Fall Fall From Strong Fall From Strong Fall From Fall Fall Fall Fall Fall Fall Fall Fal	TH	0855	Sotty! Shran	8	5			
TF 135 Sorty Mondon 1 5 5 - 50 Pt 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0871	1. externa	,	NE			
of the willing of the line of the willing of the line	TF	100910	Sooty/stenderbill	15	, ,			
Oggs Chinate 2 Ca Ogss Chinate 2 Ca Ogss Chinate 2 Ca Office of the color of the control of t		0910	G. Frag.	1.			- Ad of Chair Field 197	
0919 Planed and 1 3 30 1 0953 6 Fing to 2 Gr 0955 1776 1 M TF 102 30 50 1 10 20 G TF 1030 Sorty blooder 150 1 TF 1230 Sorty blooder 150 5 1248 w TT B 15 1355 Sorty fibrades 10 5 TF 1256 TF 1369 11 10 55 5 Mot plying and directionally all the lim Nich melling about. Nich melling about. Nich 1645 RT TB 1714 Sorty Tom 30 FRE 1758 Programmed 1 N 1758 P				1	G			
C9.53 Grights 2 Gr 75 17 18 1 10 TF 123 Sorty blooder 15: TF 1230 Sorty blooder 15: TF 1230 Sorty blooder 15: TF 1256 TF 12		0919	Pterodiana	1	F		<	
TF 1025 Sends, April 2015 TF 1135 Sends, Sender 155 TF 1136 Sends, Sender 155 TF 1255 Sends, Sender 155 TF 1255 Sends, Sender 155 TF 1369 TF 1369 TF 1375 TF 1369 TF 1360 TF 1360 TF 1360 TF 1376 TF 1360 TF 1376 TF 1377 TF 1378 TF		09.53	Co Fine To	2	G			
TF 123 Sorty Bonder 152 TF 1230 Sorty Bonder 152 TF 1230 Sorty Stander 155 TF 1235 Sorty Stander 165 TF 1236 Sorty Ten 1645 FT B 1764 Sorty Ten 1764 Sorty Ten 1764 Sorty Ten 1765 Pringelinea 1 1768 Pringelin			. (/	,				
TF 135 Sooty blender 155 TF 1230 Sooty 90 de 155 TF 1230 Sooty 90 de 155 TF 1256 TF 1256 TF 1357 Sooty 90 de 15 5 TF 1367 Sooty 90 de 15 5 TF 1360 II 10 Sooty 10 de 15 5 TF 1360 II 10 Sooty 10 de 15 5 THE 1360 II 10 Sooty 10 de 15	TF			7			, , , ,	
TF 1230 Sorty 1 Shader 155 TF 1230 Sorty 1 Shader 155 TF 1256 TF 1256 TF 1369 II 10 Not plying and direction Dy all the lim Milling about. Not plying about.	TF	1135	Mids.	40			e wrotent aked of	
TF 1230 Sorty / Shades 15 5 1248 WITE B 1 5 15 1255 16 1255 17 1256 18 1255 18	TE	1150	c. + Klandor				- michan	
12 18 WITB 17 1255 Sooth Schools 10 5 17 1256 18 1369 11 10 Mot Physics and Milling about. 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18				1			intep	
TF 1255 Sooty Standor 10 5 TF 1256 TF 1369 IF 1369 IF 1369 IF 137 JFP IF 10 9EP IF 10 9EP IF 1716 IF 1726 Sooty Ten 30-5ME Sheen let 2 Ingolance I J. Ingolance I	71	1230	Sorry Slander	15	5			
TF 1369 11 25 5 Not Plying and directionally all the time 15 17 Adaption 1 Start Milling about. 15 17 17 15 P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1248	WTTB	1	5			
TF 1369 11 25 5 Not Plying and directionally all the time 15 17 Adaption 1 Start Milling about. 15 17 17 15 P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7F	1255	Soots/ Stander	10	5			
Milling about. 15 14 Physicaca / N 1716 Sort Tam 30 TNE) 1758 Prigate (pp.) 1758 Prigate (pp.) 1758 Prigate (pp.) 1822 Pr Betrel 1852 Protect Seen let 1852 Protect Seen Calling.		11256	11		5		NITOO.	
1514 1547 1547 1547 1547 1547 1547 1547	7-	1309	11				Flying direction. Oh all thetin	
1547 JFP (SS) 7 1610 9FP (SS) 7 1634 Phypotherca / N 1645 RTTB No							much mill. 0 +	
1517 JFP 1610 9FP 1610 9FP 1634 Phypotherica / N 1645 RTTB 1716 1716 1716 1716 1716 1758 Prigate (ap) 1 1758 Prigate (ap) 1 1758 Phypotherica 1 1758 Phypotherica 1 1832 9F Betrel / Nere Merce i Constructions 1852 Patrol / Seine (ap) 1 18			P. hypotenta	/			Milling. Javou.	
1610 9FP 1634 Physitenca / N 1645 RTTB 1716 1716 1716 1716 1716 1758 Physite (pp) 1 1758 Physite (pp) 1 1822 9F Betrel / Arrent Mexicon whent 1852 1852 1852			·· ·· · · · · · · · · · · · · · · · ·	/	200	9		
16 45 RTTB 17/6 F 1726 Sorty Ten 30 FME 1758 Prigate Gp) 1 Physolana 1 D. 18 18 RTTB 2 RTTB 2 RTTB 2 RTTB 18 22 9- Betrel 1 Sun case matrons		1 1		1	((3))			
F 1726 Sooty Ten 30 FME) 1758 Pright Gp) 1 18/5 RTTB 1758 Pright Gp) 1 18 22 9- Betrel 1 Perent Merch & Confunctions Reserved Perent Merch & Confunctions				1	Syl.			
F 1726 Sooty Tem 30 - SA - Calling. F 1726 Sooty Tem 30 - SMET 1758 Prigate (gr) 1 1758 Physolunea 1 N. 1815- RTTB 2 END 1822 91- Betrel 1 Sun cease watrons			V V V V V V V V V V V V V V V V V V V	/	1			
F 1726 Sootg Tem 30 FNE) Shear-let 2 1758 frighte (op) 1 1758 frighte (op) 1 1818 PTB 2 EN 1822 95 Betree 1 1852 Sun cease watrons			RTT.B	1	Dr		-SA - C = 00-	
1758 Prigate laps 1 1758 Prigate laps 1 1818 PTTB 2 200 1822 9- Betrel 1 Sun cease patrons			"	/	10 -		JII - Calling.	
1758 frigute (gp) 1 1758 frigute (gp) 1 18/5- RTTB 2 200 1822 9- Betrel 1 - Were of there is there is the rest water.	F	1726	Sooty Tem	30	5000			
1758 frigate (gr) 1 8/5- RTTB 2 200 1822 9F Betrel 1 - Never there is there is the rest where			Shear-Pet		(NE)			
1822 9F Betrel 1 — Mere & there is there is the rest where		12	frigate (m)					
1822 9F Betrel 1 - Here & there is track where		138	Physolars	,				
1822 9F Betrel 1 - Here & there is track where		1815	PTT.	2	0			
1852 sun cease juntions							Man a thomas it is all the said	
sun cease junto			Y/- Betrel	/				
sel ouser		,,,			-		sun cease vatrons	
)				set ocser	
						4		

500

DATE 12 November 1965
Pg. # 1

Noctural Obresimties

		' "				Noctum	al Observation		
time	species	#	dir.	hgt.	remarks			10	C.
1853					R .				
2010	1 Scoty T.	2-	VE		Bezin-				
103	5 11				Tad. 3 imm				
104	Sooty Tem Sooty Tem 2 Sooty Tem				heard	·			
	13171	}			pearo		57-7 Bird-1		
111	Sooly em	2					Bind-1		
571	7 Sootagiem	1					July 1		
222	2 Soot Ten)							
240									
		-			- Cear	0.			
					Clar				
	•								
		1 1							
							· ·		
-									
				1					
	1	1							

Pelagic Bird Survey DATE 13 November F165 Pg.#_/ Noon: 13013'N-171025'W loc. # dir. het. remarks time species 0730 Sun Up? Readis Type 0745 NW 0746 ATTB 2 coll-fli- immaline 25 min prekup Bup 0757 0 0920 Bl.wing PS NW coll. PWW immature. 1035 RTTB 1050 RTTB Q 1115 RITB NA Sooty Hear 1158 light underwing It Poted 1159 1203 RTIB a Sorte, Jen. Sooty / Stender? 1240 5,5 1346 Eugate -AD. 2 -NW 2500 1418 Sooly Tem 13WP NAE 3/2 1427 Shear - 8 it 55 4/4 1430 Shem-Pet #13 1504 RTTB 30/3 1527 Shear-Pet 55G 3/2 Pterodiana 15 45 5/5 1550 1600 Ph 2/2 P. hypolevia DISE 1634 3/1 SEINE Shear Pet 1715 Fugate 100 por poise & fish Small-black on Ty white on bottom. Sooty Jum Fairy T. Kermadec P. 1729 Codlen Placer 1 1805 Sooty-structer SE 1820 Shean-Pet I F Patrel 1821 NE 1826 scoly-elender Sunsel - cause observation SE. V 1853

Personnel

DATE 14 Nov 1965

SE SWN N

Nom:
15° 29'N- 170°09'W species " dir. hgt. loc. 0715 Besin observations Sunvise 0718 0729 P. hypolevca 5W 0730 Leads? SE 0730 SE Phypolenia 0815 Slende bill 5 5 atorm Petrel SIF 0830 Prigate 3/2 Q 0837 Souty-Slande 15/4 0840 fingente 0 Slande bill 0905 5 AF Potes 0908 SE 6910 Phypolenia 55 Reach's Type 1 0246 0950 P. hypolenca son Hzo. NW 1 3 by from the by 10 42 Stender fill? 5 P. Lypolanca one will ready sold flack underwings Nal 1114 See Loz , E. C. 5 1 hypoleucal flying around 2 an water on water-probably also Phypolence Shock - Pet. 1124 teach,? 52 1138 RTT13 P. Lypoleuca 1223 sitting on H2(). Shot at with 22 was a 1234 sheawater shear Pet 1 245 P. hypodenia Lea d's Type 1303 5 CU dank underwings with small amount of 1307 1320 Reach's Type NE 1325 Sooty Term MA 1326 Sody Tem at least one primature. - Charing flying, Sooty Term N NI Sheon It m 1424 Shear - PET distant 1434 Jobly Tahu 1434 Pterodroma Sorty- Stender 14531 on H20.

DATE 14 Nov-65
Pg.# 2

						4			
	- 1		1	44	hat	Noon	:15°29'N-1	70009 1	V loc
	IS19	species Sandalill	/	5 F	ILKL	Tematka			
	1546	2nt Tem	3						
	1585	9FP	1						
	1550	ey. Pterod.	/	N					
F	1603	Sandslid? Sooty Tem g F P y Pterod. Sooty Tem Newell's	12	_				55-35/	5
		It Patrel	3	8				5T 33	13
		Newell's	1					9FP 7/	4
	1615	Slenda fill		, Call				Fe Pt 3/	3
	1615	Pterodrama	1	5				F PT 3/ NS /	
	1630	OF Petral	1	1				Ph 3/2	2.
	1636	Pten odema		~7.				GF 1 FT 1	
	1/45	Hender bill Hender bill	,	5				5-12	
	1649	P. hypolenca		5		-nt/20.		2 /	
	17/4	slendubill		5				RTT/	
for F	1720	GFrigate	}_			Immature		27/	
		Sooty Tern	18				Firl jumping	97/	(C-)
		Fang Tem	1			al tean	1 immaline.		
		Thypolenia.	2						
		Shean-Pet	1						
	1830	Jaega (271)							
	1835	JFP	2	NW					
	1847				a visa and a visa and a visa and a visa a visa and a visa	Sunset	↓. ••		
				_	,				

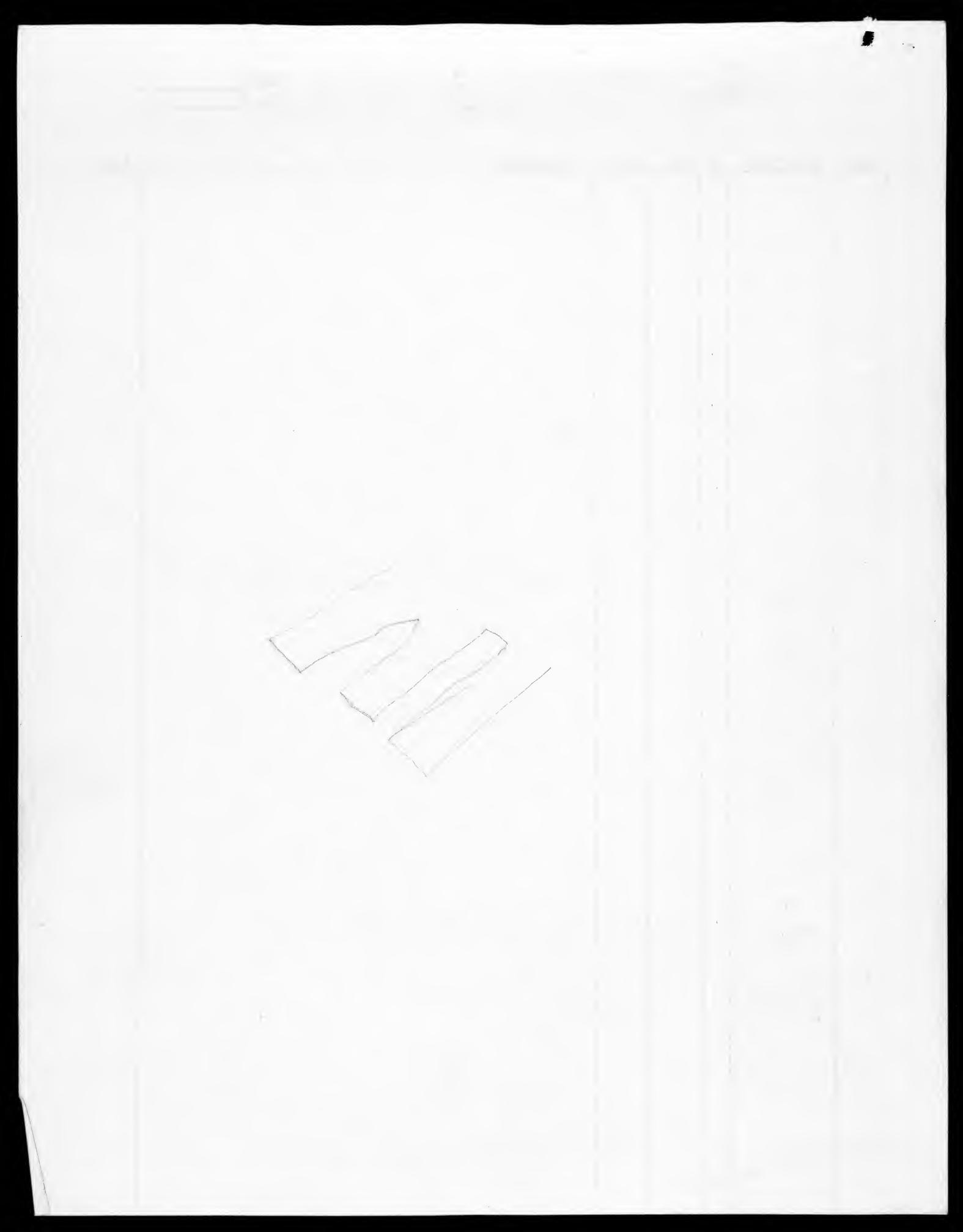


Pg. # 1965

Noon: 13040'N-172054 W # dir. hgt. species remarks 0720, Open observations 0730 apparent survise (behind clouds RTTB 0755 P. hypolevca 0805 14011 W 0833 10-15 Porporse NE 177713 6/6 0534 Golden Plover P. hypolenca 1 NW 2/2 0849 Shear-Pet N 08-49 SooyTen 10-Immature 17/16 0930 change course to NW 13FB-1 0930 RTTB GF 3/2 - Diving for Food. Slendertill 0940 5 1015 Fof 5 - sitting on the coll. JVV. Figate 0 1020 Golden Plov. G 1125 Shean . I it 1231 Slender bill 5. 1305 RITB NA Slende Sill? 1328 RTTO flushed 1346 Handenbell 5 Wiedwiedaa Now Phypotenca 13524 AFP NIU Leachs? change to NS sooty/alenter. ESE Note direction Ill 1862 1444 1419 1516 Body Shen NW Franciate P. Kypoteria Boot / Slender 1611 5 antio collected-fl P. hypolen ca 2 1918 RTTB 1715 Slender-bik dark undering. 1900 SWNSE,

DATE 16 Nov 65
Pg. #1

	W	1	5		18° W	
		W				
time	species	#	dir.	hgt.	remarks Noon: 16-04N, 171-33.5 W.	loc.
0735					Begin observations	
074/	Shear Pit Stenderhill?	2	5		5/5/3 ?	
0802	Stender bill?	1			5-P 6/5	
0807	JF?	1	W		5/5B 20/19 9FP 3/3	
(100	Slenderbill	2	SW		414	
0809	Stenderbill	1.	5		RFB1	
0815	Slenderbill)	5		RTTB	
0816	Slenderbill	,	5		PT 6/4	
8817	Reach's Type	1	2		Bird 1	
0820	Slenderbylf	,	5		Ph 1	
	Red- Food Bods				- Subadult. SwP1	
0842	Stendartill	/	NE			
0855	Shew-Pat.	}	5		45/42	
0557		1	N			
	Y F 10	./	1-w			
0 1/4	Stean 166	1	56		B. B	
08-5	5 hun 138		6		- A Comment	
P72. (Sooty/Blenda		5			
0727 C1344	. Senda	1	5			
0940		/-	J			
	6. Frigate	3	0 -	07	2 9! The in chasing iss	
1034	BLARD	/	Br	N.	275	
103	Sooti, Stinder	(.5			
1104	Elenderhil	1	NE.			
1124	(1	1	5			
	Leaches Z	1	500			
1130	slanderbill	1	5			
1132	71	1	.5			
1200	F.hypoleuca	1	NE			
	Shear - Pat)	N			
157;	Short-earl		11.5		- See On a tiso of Bulling	
	our!	1	NE		- Seen clearly at 50 yes. Buffy ing, patcher. Pww.	
1	Fryste yr.)	6		I ww.	
1240	Glenderbill	/	5			
11257	Stendubill		4			
1320	''	,	55			
325	Fregate	/	> 4:			
1405	86 Mentill	1	5		1 - 77 1 200 1 11	
1450	hea. ho	/	5		Parring Through musty I qual	
1500	SFP	1	6 1			, , , , , , , , , , , , , , , , , , , ,
1517-		Į,	5 W		-whale (ca 15)	a*
1612	n Frigate	1	SE.		Adult o	Ф1 Ф Ф
1658	B.W Petril	1	5E			,
		-	44			, 14



ime	species	#	dir.	hgt.	remarks Noon: 16-04N, 171-33.5 W	loc.
1720	shear pet shear pet shear pet	1	NW	,		
1744	Thear-pet	1	NW			
1800	shear pet	/				
826	W		/ //		whale	
1850					apparent surret	
					appaun se	
					5/58 /	
					5/5B / 5/P-2/2	
					GF-1	
	-					

•	NW
INIW	

time	species	#	dir.	hgt.	remarks Noon - 15-10 N, 174-14 W	loc,
0726		-			Legin	
072	RITIS	1	0			
6729	par.	,	15			
6730		/			SUNRISE	
0758	Barry 8 km	1	5		lights aring patches	
0740	Scoty		_			
8745	Scroty/Blender	3	5			
	11	19	56	1		
07%		1	45 E			
	0.7.0	3	>			
0799						
0755	Bird Bird	11-			setting on 4/2 0	
075	-Shen-Pas	1	D		7.	
0757	BootyTem	/	N'-		- Jums	. /
0802	JFP	/	CR		at present shy	2 2-
0905	2. Kurdalill	/	5		Course estilve	
0806	11	2	5		a. Frig. AAA 1-2	
0809	/1	4	5		JEP 1-1	
0815	11	/	5			
08.15	11	1	5		5/ 1-1	
TF 083/	(,	5	5		55 30-165	
TF 0842		6	5		Bird 3-3	
TF 0849		7	5			
0851		1	5		RTTB 4-5	
0906		/	5		frig 1-1	
0910	.,	3	.5		Place 2-2	
0922	Bird (3)	3	5		- observed by bridge. Att	
	12000	1		The state of the s	• ·	
0925	Slendertill	3	5		5-P-1-1	
0927	RTTB	7.	17			
0949	& landerbill	1	5		44-187 181	
	Slenderbill	.سي را			19-10-4	
1005	()	13	5			
1005	1	3	5		t lacks 9-123	
1008	- Ca	2			184 7	
F. 1015	Sorty- senda	10	7		241	
1620	".	2	5			
F 1028	(1	1	5			
1036	· · · · ·	7	مريد			
7F 10 43		25	5			
TF 1045	η		5		91	
10 45	14	40			40	
1046	RTTB	1	17			
11/1101	Story Stender	a				
1113	Bird	1	5		Brown Booky or common Nodey riding a log	
1123	dirigate	1	<u>@</u>			
115	PITO	V-			Musmed por! /20	
135			15			
136	Gele Plona	1				





Pelagic Bird Survey,

DATE 17 November 960

P8.# 2

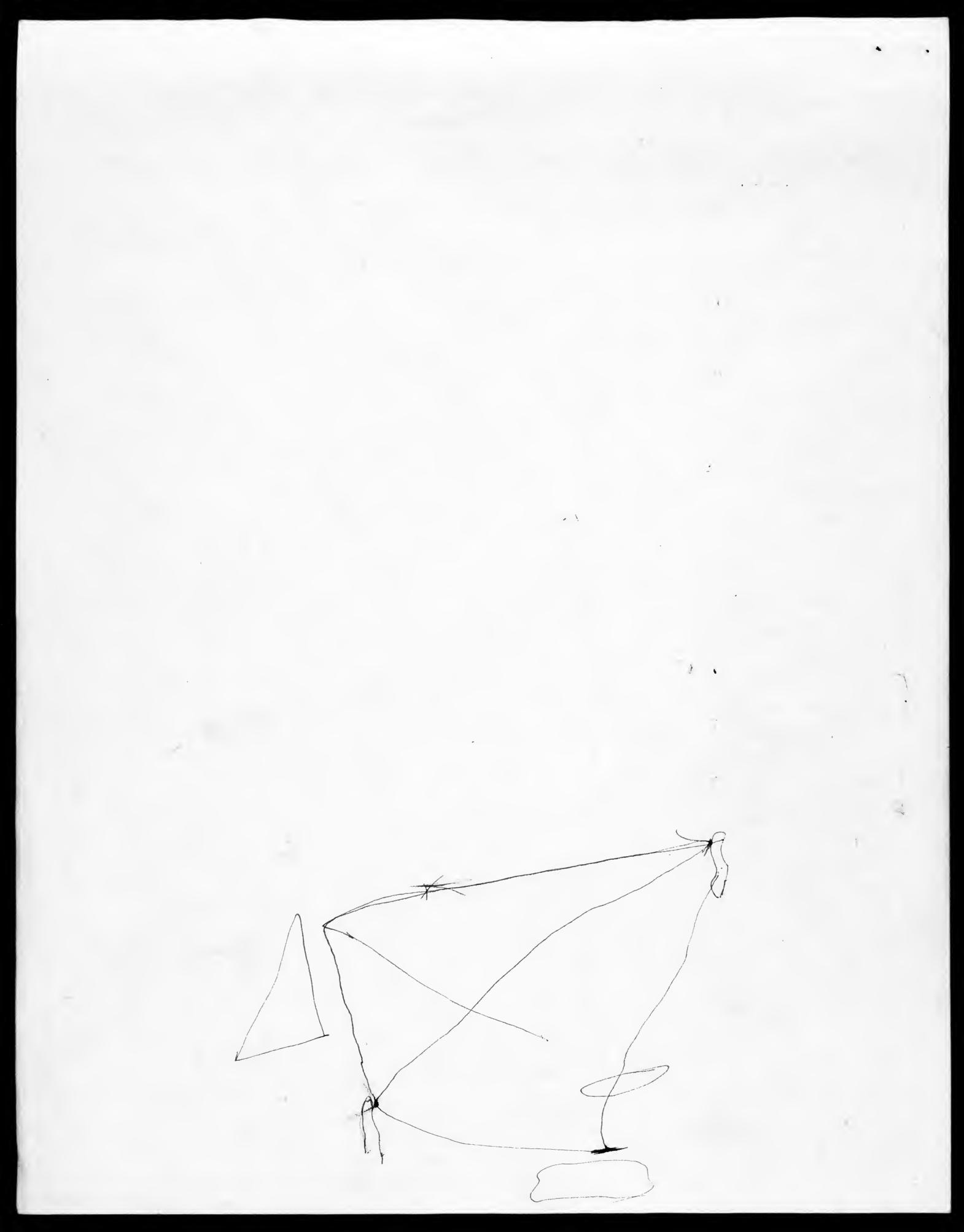
						1000 15-10 10 1714 111 10)	
		species			hgt.	remarks Noon: 15-10 N, 174-14. W	loc.
TF	1149	5/endervill	16	15			
	1200	Slendenbill	2	5			
TF	1205	8 lende Vill	20	5			
	1230	Slandenbill	3	5			
	1245					- Changed Course NE	
	1301	RITB		NE			
	1301	1. hypolica	1	177			
		RTTB slenderbill	1	(-an.H20, 272 55-37-228	
	100 7	1 -,	2	5		35-37-228	
.0	1316	Frigate, Co.	1	Sa		RT7B 3-3	
N	16.37 0	1 1/2 - Was Vonde		NE		hypro 2-2	
TE	1322	P. hypo levca Slenderbill	F	5		frigete 1-1	
	13 28		2	5		,	
	1329	11	4	۲. ا		5 Kna 1-1	
	1329	"	7	5		44.	
	1330	1)	1	5		279	
	1340	RITB	1			-on 420 Floch-16-22\$	
F	1343	Sterdulill	7	5			
F	1415	1/	5	5			
<i>ī</i> -	1426	41	103	5			
	1446	#1	1	5			
F	1446	5 kna	1	MEN	1		
	1450	Stenderbill	12	Man 5			
	1756	Se 1 1-00	3	5			
F	5	So o	7			278	
		Henderlik	16	5		165	
F	1458	Ce 1 - 1 h	12	5		443	
•	1502	senderbil	9	5			
pa.	1510	()	/	5			
	1-		16	5			200
	15/3	//	7	>		104	amana
(=	1513	11	9	5		128	
	1520		4	5		46	3
F	1521	11	1			278	
(153 8		12				
F	1530	v	/	<			= -9
	15-32	/ 6	3	5			
€ :	232	4.1	24	5			3
	1540		1	5			
			,				

Podajie Birdsurvey

DATE 17 Vov 65

Pg. # 3

				5			
] 	14	la a ta	remarks Noon: 15-10 N, 174-14 W	100
	time 1970	Species &	7	alr.	ngt.	remarks	loc.
	1	00 0 0.00	27	<		55 38-397	
F	1550	Slanderbill	21)			
F	1552	Slenderbill		5		frig 1-1	
			10	5		RTTB 2-2	
	1555	Slanderfield Frigate	10	G		BIP 1-1	
F		Standarlill				ST 1-1	
	4	Slanderbill		5		Ptero 1-1	
F		Slenderby		5 -		one silling on H20	
F	1604	Scendental	1	5		- one sitting in H20 403/40	
		- security con		5			
	1606	Slandabill	30	5			
	1608	Slandabil	1	NE			
	1611	Binin IsPe	# 1	1		11 I - tim with neck egg spot	
	1/17	, , , , ,		NW		Head contracting with neck, ege spot black	
	101/	Almaeld 2+	2	5			
F	1.122		1			158	
r	164)	Slenderbill	4				
F		Slandonbill	2	5			
	1625	Studentil	15	5			
F	1625	Lenderbill	9	5			
F	1632	stenderboll	0	5			
F		Stenderbill		4			
-	(F 33	Slanderlil	0			397	
		Standarbill	3	3		2.72	
*		Slandabill	2.	1		1	
	1641	Slandubil	1	5		219	
5-	1695	Sandalord	17.	5		134	
ħ	16 41	11	15	5		47	
F	1648	rj	15	5		71	
_	1650	61	3	<i>F1</i>			
F	1657	41	3	/1			
F	1659	tz U	26	, 1			
F	1700	17	733				
1	1706	OTTO	33	11			
Fin	1706	00.000					
1	1709	men xerhil	ON CA	5			0
F	1715	1,	30	5			
	1715	200ty Term	6	5	7		
	1717	Blinderlike	2	3 -		Court 1	
	l l						



F 179 179 179 F 179	40	al.	C					loc.
174		2	5			15-10 N, 174-		
F 177		1	5					
170	15 1,	12	5					
= 1711	15 " 15 "	4	5555					
F 174	7	1284620	5					
E 174	8	10	6.0					
F 175	2 "	24 28 4	1.0					
175	5 1	14 2						
175	Frigate 6			- 9				
175	Frigate, 6	2	South					
15 1 5	5 / 1	3	٠.					
F 175	4	40 20	11					
F 190	7	8	U					
厅内的	- Joseph Land	46	5					
1, 18, 0	1 0 1	70)					
FIR	0.3	1/	5					
13	16 1. hypoleno	a 1	M					
F 13	16 Standarfill	7	5					
E P	20 Slandalill	16	5					
广陈		9	5					
-	23 Stanlabell	5	5					
I MB	15 80 l. l. ol) 14	5				/	
FIRS	0 0 00	7	5			5/3-43	5 3 37	
	30 Soot Tem		2			GF-1	l	
	31 Slendelds		5			Ph-1		
		7				5-8-1		
F 18.		130	>					
F 163		10	5					
18	fremoent.)					
	10 charlow	8	5					
F 184		1/3	5					
	145 Sendelill	3	5					
16	-achire	3	5					
	50 Seculabil	10	5					
F 18	35 Senhebell	5	5					
// 10	00	-		(L	/ ^	(1		
				Junsel	(dozene	<u></u>		

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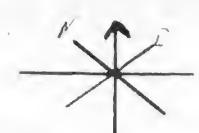
Northand Observation

time	species	# dir.	het. remarks	loc.
1900			Bezin	
1911	Slenderbill	3 S		
19/6	G. Plover	5 5 1 N	Pandal - V-0	
123	4 Slandarbill G. Plover		Randed an dech.	
	-			
		-		



				1			
	time	species	#	dir.	hgt.	remarks Noon-16-45 N, 171-31 W	loc.
	0/25 -			1		BESIN	
	30	slonderbill	2	S.			
	35	• •	5				
	36		2	٠.			
	0741-		1	٠.			
F	0743	slenderlill	7	5		-approximate runrise	
F	0746	£ +	6	5			
 	0750	• •	5	١,		5B-139/33 BFB-1	
	52		3	• •		B+13 -1	
7-	55		7			5-P 6/5	
	57		4			RTTB 2/2 Brid -1	
	58	19	24	5		Pe-1	
	0822	,,	3	.5		CF 2/1	
	0925	2 50	3	5		13°P 1	
	0830	B. + Body	1	N			
	0845	Shear-Pet	1			Arrivaterre (-lected 10 153/44	
	0858	RTTB	1			744	
	09/2	Shear-Pet	2	5			
	0913	Slenderbill	1	5		11-6.99	
	0916	Slendubil	3	5		flocks: 9-90	
	0924	"	1	5			
٠	0924	Shear Pet	2	,,			
	0932	Stenderhill	/	N?			
	0936	Gird	1	4.5		Honzon; appeared white - Tropicking or Books	
	0938	Henderbill	(5		Honzon; appeared white - Tropickind or Booky	
	1020	P7:13	1	5		- flushed from 1/20	
	1030	Slotaled I		v.5 -		7.20	
	1033	Clanderbill	3	5			
1	10 37	11	16	.5			
	(05)	11 11	1	5			
	1043	,	1	5		- 4/2 /- 1 - 0/ 20/ 0-/ 0 / 0	
	1108	7.	1	(: -		amend 10 min Vewells, light below,	
	1143	Frigatebird	2			Michel brownish above, straight	
	1152	stenderlill	2	C?		flight with intermittent flagning	
	1153	Kermadex P	1	Cos		1 1-2 were water	
F	1157	Stenderbill	3.	>			
	1156	11	2	5			
	1205	u 1 j	2	5			0.3
	12/2	(1	1	5			
	1256	/1	~	5		one sitting on How	
	1310	Sl. 0+		5			
F	1315	Hender by W	200	13			
F	1316	Shuderbill.	6.	(
F	1320	Se- 1, 0:0		5			
		- mount	15				

1-2-3-4-5-6-7.8-9-10-11-1L X



			,,,	1 •	•	16-45 N 171-31 hz	
-	1325	Shear Pt	*	NW	ngt.	remarks Noon: 16-45 N, 171-31 W	loc.
	1321	86. 1-660	2	5			
	1327	booly (2m)	,	SW			
	1331	Slunderbill	3	5			
	1338	Slundulill c. Nath Stenderbill	17	5			
-	1403	siender oil!	55	5		ENNUI	
_	1403	4	7	, ,			
F	1409	//	15	5			
P	/3	11	6	11 13	4	5-12-1 5B- 398/40 Booky-1 CN-1	
F	20	/ 1	75	5		5B- 398/40	
F	22		8	11		Booky -1	
~	1425	11	252			CN-1	
	, 5 4	21	2	5		BWP-1	
A	39	,	181	11		58-1	
P	39	<i>! !</i>	38			45P-1	
7	45 55 1502	"	33	••		1877 - ANDE 1	
<i>F</i> -	1505		2.5			288	
		Bl. Wyd Petrel	1	_			
	1542	and the same	1	// -		adult 406/49	
P	1513	5 lendertil	5	5		Hochs - 23 (368)	
	517	[r	1	~		Modes - 22 (368)	
F	25		12				
F	32	• •	B	4.		329	
	34	laaches?	1	7			
F	34	Alenderbill.	9	5			
-	47		6	11			
1	53	RTTB	17			on the D	
	58	Slender !!	1	5			
	1609	47	1				
=	1618	", h	/				
Œ	1624	,,	102	••			
	1631	Sorty Thear	4,	5		* 1" · + 1 · 11 - 0 ·	
	1639	Elenderbill	1			Definite difference in underwing	
	1642	Jani 1 -1				384 loot perpone, 2	
	1644	Thepropora	2	5		on water - land was to	
	1648	Sooth Sten	1	5		bright floshing heading south. Brown on	
	1650	Slenderfill	/	5		Top - gray undermenth tur	ça G
		Seendalal	1	5		time.	
	1703	Sunderfull	5	7			
F	1/65	Sende bil	6	5			

Pelagia Bird Sung.

DATE 18 November 1965P8.# 3

time species	# dir. l	het.	remarks Noon - 16-45N, 171-31 W	loc.
F 1709 Slenderbill 1	05			
F 1715 8le 10 0.00	3 5			
1715 80 100	6 5		719/20	
1719 Do 0 0 00	2 3		5B - 219/35	
F 1724 Standarbill	10 5		RF13-1	
1715 Slendertall 1719 Slendertall F 1724 F 1730	1 5 10 5 9 5		$L-1$ $\omega NP-1$	
Sandarbut	7 5			
1732 Slandull 1733 Slandull			277/38	
1734 Slende 000	9 5		flocks - 12 (165)	
1740 Slandabill	2 5			
F 1742 Senderbill	2 >			
17 - SC 1000	1000			
F 1743 Sen Level .				
1748 Red. Dat B	1 5w		-80 A A	
1749 Slanderbild	1 5		Dubadul.	
1751 80 0 1:00	4 5			
1751 Slanderfill	4 6			
1753 Slender (il)	3 5			
1754 Reach's Type	12			
F 1755 Stendenbill	16 3			
1756 Slandarbill	1 5			
	10 5	i		
= 180, Sandabil	2. 5			
1884 80 0 0 0	3 5			
F-1805 Slinderlalo!	7 5			
1808 Slandilow	1 3			
1812. Slenderbull.	3 5			
1813 Slende Dill	25			
7 11 /	35			
1816 Slenderlied.	2 5			
1820 Hendubill	7 5			
1823 (N-0 O.T.)	25			
1825 W-n Petrol	1 00			
F 18 25 20 0 0 11	5			
senderby (-

Pelagic Bird Senry

DATE 18 November 1915

PB.# 4

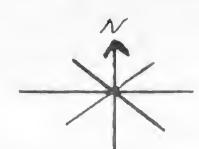
time species # dir. hgt. remarks Noon: 16-45 N, 171-31 W loc. Slanderbill F 1827 13 F 1831 Slanderlal 1832 Slundenbill 1833 Senderbill 5 1841 56/9 Hochs - 4 (47) 17 · Sum down ? 1855



Pelagic Bird Survey

NOCTERNAL OBSERV.

	. •		<i>H</i> 3			
	2000.	species - Bird	# dir.	Begin abserv: The glow heard Nate notificant of	from Johnston I. is visable a little present course.	oc.
	0045	Reach's Stom Petrel		attracted by lig	ets-caught in met	
	0345			and observer	tions	
1						
	,					
*						
,						
			2			



		46 3	day has	remarks Noom: 17-33,169-33 W
time	species	# d	ir. hgt.	
0723				Begin observations
075/	Stendorbill	2	5	J Simerac
0805	Stenderbill	1	5	
0825	Slenderbill	1	5	
0833	Sama	1	5	
	Slanderlo	1	5	
0835	Rod - Pool Books	1		- colle te d-PWW-Subadult.
	See la bill		C	Collegale at 1000 - Subadull.
	Blandabill	0		
0931	8 Cande bill	0	5	
0934			,47	1201/2/
	sen libel	/	>	513-86/25
0938	Francial	/3	5	5 - /
0940	Ble despill	5	5	RFB-1
0944	Parteina	1		D 11/14
0948		1	5	
0950	M			JFP-1/3
		6	5	RTTB-1
0955	1/1/20 months	1	5	KP-1
0956	Affected		na	$-\tau$
1005	Elenderbill	1	5	-1 0-t -1
1019	Perterna	1	Cosw	Steam Pet -1
1022	plenderlill	3	56	Bird = 3/1
1031		1	5-5E	Ph -1
1031	BTTB	/	.5	- siting on the
1039	Hermaber P.	/ /		108/41
1040	slendertill		5	
1106	Frigate, Cr.	1	E	
1145	Stenderbill	1		
1156	P. externa	1	62.	
121.	Booty/Stend	3	55	
140	11 11	44	55	
1230		1		15cis/c/c of 1/1
24,				
1250	Storm Reb	1/	.55	- 1- now ye along ? ind in
125	3 800 5/3/1/	4	5 =	trover above eighticton
205	Bird	/	6	
13/3	SED	5	-3	2000 /20 (10/5 coll.); 3 sat
13/2		1		Sether white preprip made chased
13/5	200ty Sh	3	<-	afterward
132		1	>	
14.05	P. hypole uca	-	.5	Ship underway after puchup
			?	with 2 prexised Water IFP of 1315
11449	Henderbill	11	5	
	7 - 100 0111	1'		

~

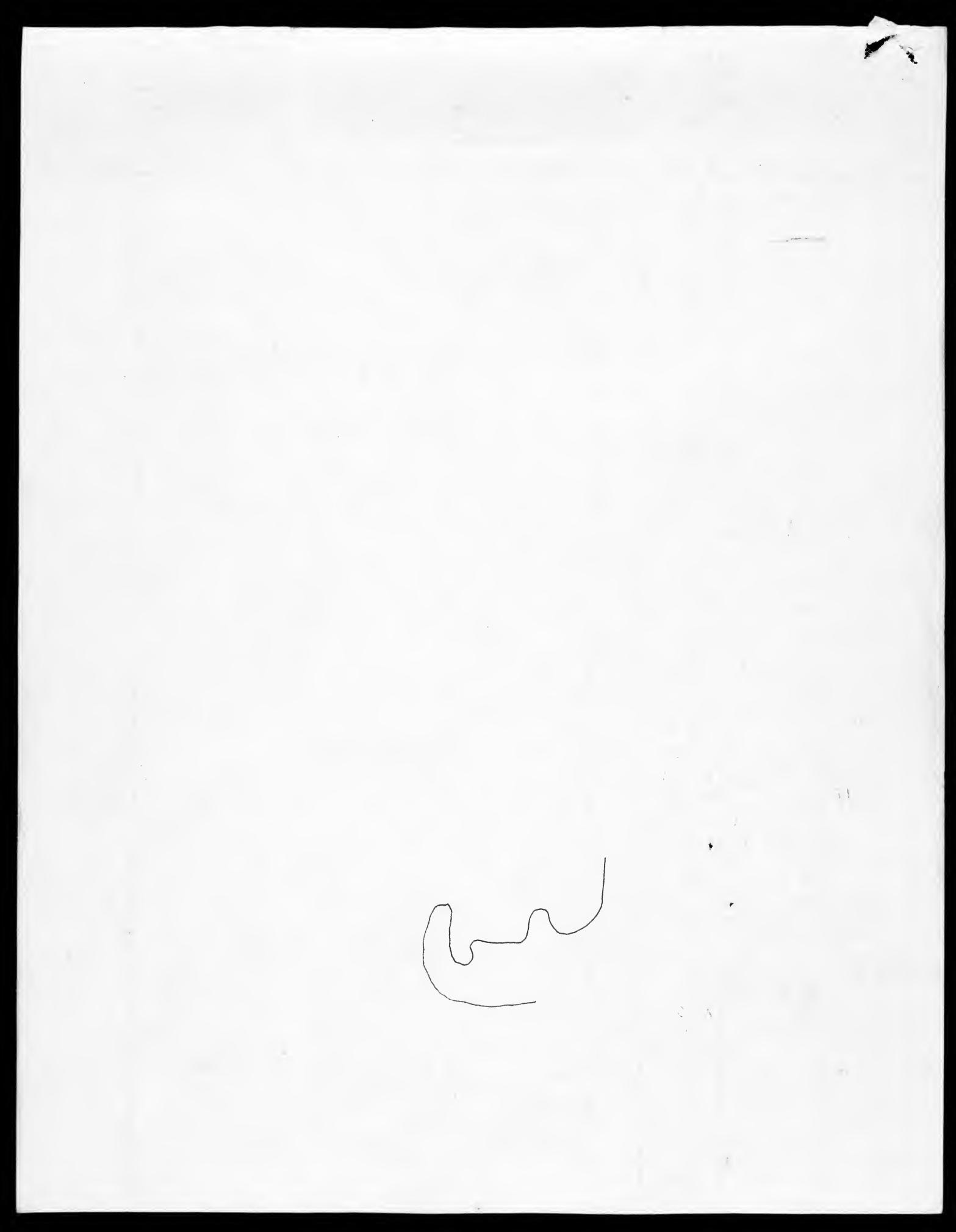
DATE /9 Nov 1965
Pg.#2

time	species	# dir.	het.	remarks Noon: 17-33 N, 169-33 W	loc.
F 1505 1525 1545	Slenderbill RTTB RTTB Slenderbill	15 5 2 O- 1 - 2 S		- often siting on Hz O - sit on Hz O - very possibly me of above Z.	
16.5.	Shear-Petul	1 S 1 NE			
1742 1749 1749	8 sosty/8 Denle	1 N		adult(!) STu a Read inthe Dinking?	
1807 1814 1840	3 p. hypolinea 7 Stenderbill 11	1 5		- Tunset	
				5B - 23/7 RIFB $3/2$ $PA - 2/2$ $5-P - 2/2$ $B+B - 1$	
				3-P - 2/2 BFB - 1 31/14	

DATE 20 Mores



271 2 Loubill 1 56 271 2 Loubill 1 5 271 2		time	species	#	dir.	hgt.	remarks Noon = 20-15N, 167-47 W	loc
5		07/2-					legen	
27, 27 19 18 18 18 18 18 18 18 18 18 18 18 18 18		0716	2 lenderbill	1	SE			
F 072 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		0725	-		The state of the s		SUNRISE	
Form Sandadad 55 c		0729	Stenderbill	/			SR 58/26	
F 0785 Seculated 55			RTTB	3			PTTVT: 213	
## 1975 25 6 24 7 7 7 7 7 7 7 7 7	- Grant		Slenderbill	1	5		11113 212	
### 1	H		10	7			7 45 414	
0758 82 July 1 4 F C800 2007/clade 6 5E 0808 3 F			950	/	8		maxial []	
F 0200 200 / leader 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0755	3 lander bil	11	56		BFAZ	
0503 0509 0508 0509 0508 0508 0508 0508 0508		0758	sembelio 0	,			S-D/	
0503 0509 0508 0509 0508 0508 0508 0508 0508		0800	200 ty/e/puday		7		Pe 2	
Set of the delite of the state			// contest.	6	SE		GF dh	
Second State of 1 Co white map 0829 not/states 1 Co white map 0829 not/states 2 S whale 0820 not/states 2 S whale 0820 not/states 2 S whale 0903 Shen Pt 1 SE 0903 Shen Pt 1 SE 0910 Se deld 1 S 0919 Pertura 1 NO 0919 Se deld 2 S 0919 Pertura 1 NO 0914 Se deld 2 S 0913 Sember 2 S 0913 Sember 2 S 0913 Sember 2 S 0914 Sember 2 S 0915 Sheled 8 S 0916 Sember 2 S 0917 Sember 2 S 0918 Sember 2 S 091			Wedgetail	1	1		77/11	
of 20 a shilled 1 6 white sump 0820 a shilled 2 5 0842 IF Petro / 1 E 0842 IF Petro / 1 E 0835 Alendeld 2 5 0903 Ghan Pit 1 5 E 0905 P. Edward 1 No 0910 Se deld 1 5 0915 Sandald 2 5 0918 P. Estern 1 No 0918 Sendeld 2 5 0918 Sendeld 1 5 0918 Sendeld 1 5 0918 Sendeld 1 5 0918 Sendeld 1 5 0918 Sendeld 2 5 0918 Sendeld 3 5		0808	JAP	1			13/40	
829 2001/stades 2 5 0842 Jir Petre / 1 E 0852 Standard 2 5 0803 Stan Pit 1 5 E 0905 P. etama 1 ND 0910 Standard 2 5 0918 P. externa 1 ND 0918 Standard 2 5 0918 P. externa 1 ND 0918 Standard 2 5 0923 Standard 2 5 0923 Standard 2 5 0923 Standard 3 5 0926 Standard 1 5 0936 Standard 1 5 0936 Standard 1 5 0936 Standard 1 5 0938 Standard 1		6/3						
154 2 JA Petre / 1 E whale 2 Janthales (+otal 3) 0903 Shen Pet 1 SE 0905 P. Schema 1 No 0910 Sendeld 1 S 0918 P. Externa 1 No 0919 P. Externa 1 No 0919 Sendeld 2 S 0910 Sendeld 2 S 0910 Sendeld 2 S 0910 Sendeld 5 S 0912 Shulled 6 S 0920 Sendeld 1 S F 0925 Shulled 6 S 0930 Sendeld 1 S F 0925 Shulled 1 S 0938 Sendeld 3 S 0938 Sendeld 3 S 0938 Sendeld 3 S 0938 Sendeld 5 S 0938 Sendeld 5 S 0938 Sendeld 6 S 0938 Sendeld 7 S 0938 Sendeld 7 S 0938 Sendeld 7 S 0938 Sendeld 8 S Formal Sendeld 8 S 0938 Sendeld 8		0820	O-FAlbalian	1	0		white mmp	
842 31 Petrol 1 E 562 384 Mendeld 25 6903 Shim Pit 1 5 E 0905 R. extraor 1 NA 0910 Sandald 1 5 50mball 2 5 0915 Sandald 2 5 6913 Sandald 2 5 6913 Sandald 4 5 F 0915 Slandald 4 5 F 0915 Slandald 4 5 F 0916 Sandald 1 5 0930 Sken felled 1 5 F 0916 Sandald 1 5 0930 Sken felled 1 5 F 0916 Sandald 1 5 0930 Sken felled 1 5 0930 Sken felled 1 5 0931 Slandald 1 5 0932 Skendald 1 5 0933 Skendald 1 5 0933 Skendald 1 5 0933 Skendald 1 5 0931 Slandald 1 5 0932 Slandald 1 5 0933 Slandald 1 5 0932 Slandald 1 5 0933 Slandald 1 5 0933 Slandald 1 5 0933 Slandald 1 5 0934 Slandald 1 5 0935 Slandald 1 5 0936 Slandald 1 5 0936 Slandald 1 5 0937 Slandald 1 5 0938 Slandald 1		0829	Rooty/illendar	2	5			
See Hendeld 25 Ogos Shan Pet 15E Ogos D. Enterong 1 No Ogos D. Enterong 1 No Ogos See deld 15 Ogos See deld 25 Ogos See deld 15 Ogo		0840.	TE Patrical				whale	
25 Shear Pit 1 5E 0905 P. setterna 1 NV 0915 Sandald 2 5 0918 P. externa 1 NV 0918 Sendald 2 5 0910 Sendald 2 5 0910 Sendald 2 5 0912 Sendald 4 5 F 0926 Sendald 4 5 F 0926 Sendald 1 5 0935 Bendald 1 5 0935 Bendald 1 5 0935 Bendald 3 5 0932 Sendald 3 5 0933 Sendald 3 5 0932 Sendald 3 5 0933 Send		5050	or reive	/	E		712 les (+to) 3	
0905 P. extrema 1 No 0910 St. delill 1 S 0915 Standard 2 S 0918 P. extrema 1 No 0914 Standard 2 S 0923 Standard 2 S 0923 Standard 4 S F 0926 Standard 6 S 0930 Standard 1 S 0930 Standard 1 S 0930 Standard 1 S 0931 Standard 2 S 0931 Standard 2 S 0951 Standard 2 S		0866	17 0011				another where (10 m)	
0905 P. Esterna 1 No. 0910 Sendell 2 S 0913 P. Esterna 1 No. 0914 Sendell 2 S 0913 Sendell 2 S 0913 Sendell 2 S 0913 Sendell 3 S 0915 Sendell 5 S F 0916 Sendell 1 S 0930 Sendell 1 S 0930 Sendell 3 S				2	5		(2 notize win is)	
0910 0918 0918 0918 0918 0918 0918 0918			17. 2000	1	SE			
0910 Sendall 1 5 0915 50 dall 2 5 0918 P. externa 1 NN 0918 Sendall 2 5 0918 Sendall 2 5 0918 Sendall 2 5 0912 Sendall 1 5 F 0915 Sendall 1 5 F 0915 Sendall 1 5 0930 Sendall 2 5 0930 Sendall 2 5 0950 Sendall 2 5 0950 Sendall 2 5		0705	to elimina	1	12			
9915 Sandall 2 S 9918 Peter 1 NN 6918 Sendall 2 S 6913 Sendall 2 S 6923 Sendall 1 S F 0926 Sandall 1 S F 0926 Sandall 1 S 0930 Sendall 1 S 0938 Bendall 1 S 0938 Sendall 1 S 0938 Sendall 3 S 0942 Sendall 1 S 0951 Sendall 2 S 1000 Frigate 92 1 G 1005 Sindall 2 S 1005 Sindall 2 S			4		5			
0918 P. externa 1 M 0914 Sendebill 2 S 0910 Sendebill 2 S 0913 Scholid		6915			5			
6913 School 2 5 6923 School 8 5 F 6925 School 8 6 5 0926 School 8 5 0927 School 1 5 0930 School 1 5 0938 School 1 5 0938 School 1 5 0938 School 1 3 5 0938 School 1 3 5 0938 School 1 2 5 1000 Frigate (9) 1 Cd 1000 Frigate (9) 1 Cd 1000 School 1 5 1000 Frigate (9) 1 Cd 1000 School 1 5 1000 Frigate (9) 1 Cd 1000 School 1 5 1000 School		0918			100			
6923 Scondabill 1 5 F 6925 Slandabill 8 5 F 6926 Skondabill 1 5 0930 Skondabill 1 5 0935 Bendabill 3 5 0932 Skondabill 3 5 0942 Skondabill 1 5 0952 Skondabill 1 5 0952 Skondabill 1 5 0952 Skondabill 1 5 1000 Frigate 90 1 3 1005 Skondabill 2 5 1007 Frigate 90 1 3 1005 Skondabill 2 5 1005 Skondabill 2 5 1005 Skondabill 2 5 1005 Skondabill 3 5 1005 S		6919			700			
6923 Stendard 8 5 F 0926 Stendard 6 5 0930 Stendard 1 5 0938 B. Marina, 1 0930 stendard 3 5 0942 Stendard 8 5 0951 Flindard 2 5 1000 Frigate equal 1 1005 Stendard 2 5 1005 Ste		0928	seenle !!	2.	5			
F 0925 Slandwill 8 5 F 0926 Seadwill 6 5 0930 Seadwill 1 5 0935 B Mairon 1 0936 Seadwill 3 5 0942 Seadwill 3 5 0952 Slandwill 2 5 1000 Frigate 901 1 3 1005 Blandwill 2 5 1005 Blandwill 2 5 1005 Slandwill 3 5 1005 Sl		0923		1	5			
F 0926 Sembelled 1 5 0930 Sembelled 1 5 0935 B. Military; 0936 Sembelled 3 5 0942 Sembelled 3 5 0952 Gendeld 1 5 1000 Frigate ex.) 1 0 1005 Sembel. 2 5 1005 Sembel. 2		6005		0				
0930. Sendeilal 1 5 0935 B- Milatenz) 0936 sendeilal 3 5 0942 Sendeilal 1 5 0952 Gendeilal 1 5 1000 Frigate sp.) 1 0 1005 Blands. 2 5: 035 1273 035 Sendeilal 5 5	1	_	0.	0	5			
0935 B. Milahan 1 0936 sembedil 3 5 0942 Sembedil 1 5 0951 Glindubil 2 5 1000 Frigate en 1 1005 Blindubil 2 5 1005 Sembedin 3 5 1005 Sembe	V-	0926	- Handulot	16)			
0935 B. Milahan 1 0936 sembedil 3 5 0942 Sembedil 1 5 0951 Glindubil 2 5 1000 Frigate en 1 1005 Blindubil 2 5 1005 Sembedin 3 5 1005 Sembe		0930	Sen Jeilell	11	5			
10952 Standabill 25 1000 Frigate exp.) 1 0 1005 Blands. 25:- 1025 B		0935					All dark; tid not return after	
0952 Flindull 2 5 1000 Frigate ex.) 1 3 1005 Blenda 2 5 1015 12773 1025 Brigate 2 5 1035 Brigate 2 5 1036 Brigate 2 5 1036 Brigate 2 5 1037 Brigate		0936	1	7	5		Leading on non extrage	
1000 Frigate en 1 (3) 1005 Blender 2 51- 1015 17713 1025 151 1027 151 1038 Scientific 2 51- 1038 Scientific 2		0942		1	5			1
1000 Frigate exp.) (3) 1005 Blands. 2 50- 1015 17773 1028 Frigate 1028 Stendard Committee Comm			1	7	(
1005 Blenda. 2 50- 1015 17713 1025 Frigate 15 1025 85 1 5			-	1				
1015 1271B 1025 1			19 = 4 EV!)	1	(7)			
1028 1871B 1028 1871 1028 1871		1005	8 Bando	12				
-034 Siendonia.			12773	1	-	1		
-034 S. Céndo			ange E.	1				
10%0			1		.5 -			
17 13 8 7 1 1		nes sis		1				





Pelagic Bird Survey

DATE 20 Nov 15
Pg. # 3

time	species	#	dir.	hgt.	remarks Noon: 20-15N, 167-47 W 1	oc.
10-95		1	E		9FF 18/4	
1059	Slanderbill	3	50		58 51/21	
1103	BWP	1	w		Bus 7/2	
1113	Prehterna	1	0		Per 5/5	
1113	Blenderbill	/	ESE		PM - 115	
1122	1,	2	55		PF5 212	
1143	Pterolroma Stendentill	1	5 (2)		WNF-/	
1146	15	1	5		21 211	
1158		13	5		ALT SI	
1205	Pake toot shear	/	NIE			
	Black-W. Petrel	1	NE		5-17-2	
7228	slenderlill	2.	5		ニナーフ	
12%	white-neck P.	1	SE		m 1/2 1 1 1 1 1 1 1 - 1	1.1
	BEA batress	+			In alstron to our which has very following	mp)
F 1245		10	5			
125		3	5		78/4/	
1320	Slindebil	1	5			
13 24	Lendelill	2	-			
132	- Carractive	6	7			
133	a Stenderlill	2	5		5 ~/	
1 7 44	Stem derbill)	,5			
1340	15/9-de-bill	3	5			
135	- Slandad 00	,	5			
1825	tiere	/	7			
1820	020	/	NE			
183.	1. hypotone	2	<u></u>			
1852	Standerlill	5	5/5			
15-2	P. externa.	1	\$ N			
154	11	1	Iw			1
1540	ruges vy!	1				
1600	7	/	6		over porpous	1
16-C7	Annual of the second			1 -	4-5 19 (10') all brownsh	
1612	slenderlill	1	5		Dorpoise, ofter just under surface	
	P. externa	1	NE			1
1	1 0	Ľ	,			No.
	Matter for	17	34			
1622	1	4	5			
1622	Pale toot shea	1/	对三			
1630	Sharwates	1	E		- Not well observed: Larger than wedgetailfeurner brown	above
1630	P. externa N.Z. Shearw	/	5		11016 101	
	Pterodroma i	/,	1		-situing on 1/20 - flusted	
54	Pterodroma in slandstill		?			
1658	shear-pet	1	NW			
FF 171	Sooty Tem					
	Dy TO	/			Cow to water,	
	J. P. Potrel.	15	£ 2.		Con to water	
	Pterodrana	5	4/			17
	1		1	1		



			Name: 20-15 AL 1/2-147 (b)
1733 Slendulal 1733 B. f Albaton 1745 J.F.P 1750 Kermadec 1754 Press from a 1754 Benin Is. 1754 Slenderbill	Y 5 55 55 55 55 55 55 55 55 55 55 55 55	hgt.	remarks Nom: 20-15N, 167-47W locations Light phase.
1815 Reach's! 1815 Reach's! 1875 P. externa 1821 P. hyperlenca 1825 — hyperlenca	3 1 1 1 1		- black dividing line in white rung seen. - SUNSET
			5B - 9/3 BFA-1. IFP-1. KP-1. BTP-1.
			Pe-12/2 Ph-) 28/12 73 40 99 41
	August		200/93

remarks Noon: 20-30 N, 164-24 W # dir. hgt. loc. time species luger 0712 0713 B.F. Albat 0715 (2) Blenderlill 56 0725 Slendabill 5 0725 Petul NA 0726 Renderlind I donnto del white allower 0727 JF Patrice 0730 JFPetiel 2 0731 the add Tur by light our brings 0737 Stenlerbill 0740 Karamadec? 0743 Brune-Ped 0749 OF Petral 0754 0804 Persance NW 0809 til 0813 Sho 0816 little birk under wing grown har f F. hy polanca Jus 0821 P. hypolevea 0828 .54 JEF +1 BFA-1 32 P. Externa
35 P. externa
35 P. hypolevea 513- 15/10 Pt 9/7 PFP 31/10 5-P 14/6 PE-14/3 RP-1 18P-1 35 Sooty elender 3 37 JEP 1 Merodroma NEW Black wing 46 4 46 4.9 Standerbell OF PR P. Externa P. hypoleuca 0901 0901 0906 0908 9909 Stendartite Ble hong list 535 Kermody 1702

			1	-376	Pg. #
		EUNW		55W	
			Bu		10 , 7. 2 N // 4-7 4 /-
	time	species	#	dir. het.	remarks Noon: 20-30 N, 164-24 W
	0218	9FP	1		
	1924	Leachs	1	LNW	
	0728	Tlander 6 1	1	5	
	0928	2FP			9FP 38/23
	0930	Prevotrona	/	www	4
	0931	Bl.win Pat	/		10 513 4/3
	0936	Slenderdill Pterodoma	/ ,	5	140 Dt 4/3
-	0939	P. hypotheria	/	w 1 m	17 2/2
	3942	DEF	1	, ,	PINF 1
	0943	P. hypolenca	1		Ph Coffe
	0948	JFP	1		M FT 1
	0175		/	Su	Rain Squal ? Sob?
	0951	9FP	2	Patricia con the control of the cont	Albat rosh Sime? Sob?
	0953		(ro Neal	The state of the s
	0958	4	1	1	WNP 1
	1008	11	1		B-1-1
	7022	1.6	,	w	3016
	1027	OF Patel	{.		5-10-56/2
		of verex	- 1	E	D = n
	1024	1. hoppitains	1	6	B-A-1
	1035	1 F Petrel	,		W-10/2
	1035	IF Pelal	/	L	
J-	1040	J. The)-	- N	24-18/2
	10 70	tany lan	1		. 4/2 / 1/1/
		W- a Petiel	,	W	140/99
		IF Petral	5	E	
	1044			2	
	, , ,	P. hypoleur		70.	
	105.5	201-00	1	0.8	
	105P	Shan-Pob	1		
	1413	-2 - Pas	/	SE	
	1117	Sooty Sient	2	>==	
	1117	DE 1-0			
	1125	C' lund,	/	5=	
	1135	It total	3	001	
	1177	SEB	3	100	
	1140	*			
		Phypoleten			
	1145	JE P			
	1145	19. E. F. 16. F.	1		- Joined ablistross from refore
	1146		4	2	summise Dan's runge.
		JF/ Teled	7	~	
	1116	wedgetind		~	3/
	11 55	LAT O	1		
		of Petrol	2	~	3.1
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	1209		3	€	1 101
	1209	Walanto!	7		11. Mt
1	1221	wedgetas!	/-	0	Tay My
	1220	sooty tern	S		
FF	1225	30019 1811	2-		/ ad, 1 mm
, ,		chen-pel.	16	3	
	1200	Phypoleuca	55	5	
	/	JFPD CE	1		
	12ky	211	1		
					A A

. . . .

Pelaju Bird Survey

DATE 21 Nov-1965

Pg.#

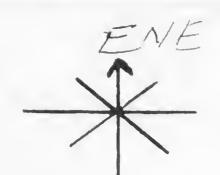
	WNW		554	* 6 * *	
time		wsa #		hgt. remarks Moon: 20-30 N, 164-24 W loc	
1300 1307 1309 1316 1316 1319 1337 1337	JFP SFP Leach 'SP? JFP P. Lypotenca White-Neckp. Black-W. Pet.	11/1/1/	NAW	-albatross no longer with ship.	
1429 1431 1437 1439 1439 145 145 145 145	Shew Pet Steam Pet Steam Pet Wedget and Wedget and Shypotenia Shypotenia Shypotenia Shypotenia Shypotenia Shypotenia Shypotenia Shypotenia Shypotenia Shypotenia Shypotenia Shypotenia Shypotenia Shypotenia	ラン・レノトノノーノ	ELESS SESEE SE SEL	dark store. RFA-12// dark store. RFA-12// 8FP 13/11 Ph 7/6 WNP 1 BWP 3/3 5-P 4/4 W 16/8 SB 2/// Pt 3/2 AP-1	
150 1515 1515 1515 153 153 153 153 153 153	Barp JE Petral Pterodiana O Wedget aid Affettal Stear-Petrol Wedgetail Pterodiana Wedgetail Pterodiana Wedgetail Pterodiana New Jesterol Phypoleva Phypoleva JEP	1211/131/21	THE EN NOWESSE KE ON SHEE	accent to 50 + feet	

DATE 21 Nov 1965
Pg. # 4

		4	15W	3300	•	1	(8 N	on:	20 - 3	30 N.	164	-24	W	loc.
	1615 1620 1646 49 1657 1700	Leach's P. hypolevea Wedget a.1/ Black-w. Pet Wedgetail Leach's P. externa wedgetail Sooty Term Com. Noddy Fairy Ti	11/1/25/022	NE N N	ngc.	5	P 1/c	reh						
	1705- 1710 1716	P. h. y polev ca Wedge fail Phypolenia Wedge fail Wedge fail	//	5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5		No æ.	pon Shatro	ss fo	Nowin				9	
N	1810					Sun	neT				15 h	2/3 40/ -10/ -10/	17	
Trug.											Pg	-2/	13	
											74 76 33	5 5 7 7 8/10	72	

		LNW		55W		
+	ime	species	5 W	dir.	hgt.	remarks Noon: 20-23 N, 164-02 W loc.
	0655			was a won		- Begin observations
	704	hi-destail	4	5£?		- Suntine:
0	704	Dark rump	1	SE		BFA-1
	0720	wetgetail	1	8E		Totals: Wedgetail 23
		Gooty Vem	1	\sim		This page Phypoleuca 2
	0774	ghear 1st		N		J. F. Petrel 1
0	0731	Lanchs	/	N		P. externa 2
	739	P Musedinca	1	E.		Dark-Rump. 3 Kermadec 2
	0739	P. hypotenca	1	55		Thear-pet 10
	0 139	bristget 1	1	5.5		Sooty/s/ender 1 Leach's 2
	,					Sooty Tern 2
1		Scoty Tan	1	IV		FAIRY Ten 2
	0740	JF Tetal	2	(2)		WITTB 1
	6740	EvelyTail		X		
(0757	were would	1	5.		(2/11)
		9FF	/	É		al gla
	0751	Shear Pet	1	NEW		
	0754	ti ei	22	NIZV		
	0 75.5	Welgetail)	15.		
	చి రోజల	350	~	10		
	0801	4	1	u.		
	0802	shear pell	1	KIW		
	0802	Wedgetail	1			
	83	JAP 1	//	Su		
		Wedne Fail	1	5111		
	12.5	Sout In	,	C		
,		Souly/slende	1)		
	,	hormader P?	1	0-		all dans converience odd plumage if a Kermadec.
	14		1	SW		Made de d
		Hermadec (1914)	11	OV	7	Two small white wing patches (each side.) Bound dorsal side and the nech down to upper - I Bound
		wedgesail	1	NA		dorsal side and the heek down to upper ches & Rest of
	26	JFP	1	1		underparts while.
	4.5	P. hypolevca	1	5W		
		• /		0		
		B.F. Albat-	1			
	35	P. ax rerna	1	SW		
	3.7	Rhear-pet	,	e.		
	38	f. externe	2	5w		
	41	Fairy Tern				
	42	Leach's	1			arshubble D.
	1		1	5W		probably Pexterna
		Wedgetail	/			
		White -tail Tropic		_		
	0.00	1	1	_		
	0916	JEP	,			
	0925		8			
'	0928	Pain Rumo		400		
	0935	Thear pet.		HE		
	0937		1	i		
	0/3/	Shear-Pet	7	NUN		

	NAMM	5512		Pg.#	2
	WNW	SSW	<i>t</i>		
4 d ma	5.4	dir.	hat remarks Noon	: 20-23 N, 161-62 h	lo
0950 100G 1021	RF13 Fairy Tenn	2 N/	Imm, followin	5 briefly	SP 2/1 7FB 5.5,
1040	Fairy Tem			<i>f</i> : <i>d</i>	15 23-B
1148 1242 131.5 1332	AF Boody JFP	1 NW 1 N-NW 1 SW-	- Imm	3 3	1P 2-1
1349 135.	S Faig Ten) - 1 N	- SA - Porpoire	about to all brown	TB 2-1
135	7 DEPatrel 5 Redi-Toot 5 Rendroma	1 1/40	Jun -> 5 F.	Juface 57	30/1
1632	Bonin Island F.	2 NE	- one		81/24
1710	Ruddy Turneto		- circling shi	jo.	
173 ·	WITB Wooty Tern Wedgetail	1 5 - 2 - 36 ² 5	Following - idark	ship.	
-5	P. hypolevca Fangtem	3	Close		
				•	



DATE 23 November 1965
Pg.#

time	species	#	dir.	hgt.	remarks		loc.
0635_					Begin.		
0640	wedgetail	2					
0653-	1	-			- survise	W- HANGER 1	
0730	shar-pet. Pomarine Jagg.	/	_			5-P-1	
0730	B- PAlbaton		1			Pg-12/6	
0745	B- P A lbation	21	N.			'/	
0750	alyen	4	Ĭ.			3FA-3/3	
750	Kem Pet.	1	N			KP-1	
0810	Pom. Jacq	2				9FP-1	
0829	La re	22.2		and the said of popular achievables, and the said formers	-4 Hotal with us		
0830	0.05		Short Statement on Article and Statement		change tood oaher	19/13	
0836	9FP	1			All tark	11.3	
0843		1/	<i>Ф1</i> 7		All Lark		
0920	Pom. Jaeger	1					
930	Br Au.	1			gease observat en		
-					•		
	0						
							1
			-				

DATE

Time at entrance to Pearl Harbor = 13/4/4/

Time at sunset = / Position at sunset = /

Miles traveled from entrance to Pearl Harbor to sunset = 43 A

Miles traveled from sunset to 2400 hours = //

TIME OF	FIX TYPE OF FIX	LONGITUDE	LATITUDE
.1	2 32-11-21		20-55-70
2.	LOKAN FOIL.	1 - C - 1	20-4131
3.			
4.			
5.			
6.			

DATE / / / /

Time at sumrise = Position at sumrise =

Time at sunset = Position at sunset =

Miles traveled from 0000 hours to sumrise = 1415

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 hours =

	TIME OF FIX	TYPE OF FIX	LONGLIUDE	LATITUDE
7.0	() 73.0	2-1-1-1-1	a 6	140-3410
20	1115	CAN + DEL	the state of the s	
3.	1335	LEPHE MEL	1.0 (21)	
١	1200	Lakev	19-12 800	103 334
5.				

6.

Time at entrance to Pearl Harbor

Time at sunset = Position at sunset =

Miles traveled from entrance to Pearl Harbor to sunset =

Miles traveled from sunset to 2400 hours =

parallel de la lace	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE	
.Ī.•					
2.					
3.					
4.					
5.					
6					

DATIF

Time at summise = ϕ 656 Position at summise = 18-32.5 M; 163-11.5 W

Time at sunset = /823 Position at sunset = /34.31 W; /2-33.54

Miles traveled from 0000 hours to summise = 62.5

Miles traveled from sunrise to sunset = 96.8

Miles traveled from sunset to 2400 hours = 58.1

TIME OF FIX	TYPE OF FIX	LONGLYUDE	LATITUDE
1. 9702	LORAN + CEL.	163-1361	· 18-31.3N
2. 1/15	LOPPEI.	163-43.1W	18-13.81
3. 1512	LORAN 4 CFL	164.12.5W	17-49.0N
4.1946	LOPAN	1:01. 75 W	19-24.5N
5. 2220	LOPAN	165-08 W	17.07511
6.			

DATE 10 144 1985

Time at entrance to Pearl Harbur =

Time at sunset = Position at sunset = ,

Miles traveled from entrance to Pearl Harbor to sunset =

Miles traveled from sunset to 2400 hours =

TIME OF FIX TYPE OF FIX LONGITUDE LATITUDE

1.0

2.

3.

40

50

6.

DATE // NOV 1965

Time at summise = 0.706 Position at summise = 16-205 A = 16-205

Time at sunset = 1838 Position at sunset = 15-28.5%; 167-25%

Miles traveled from 0000 hours to sunrise = 53.7

Miles traveled from sunrise to sunset = 88.8

Miles traveled from sunset to 2400 hours = 50.0

Complex of the	TIME OF FIX:	TIPE OF FIX	LONGITUDE	LATITUDE	
7.0	0642	/ · · · · · · · · · · · · · · · · · · ·	1-1-	1'	
2.	1000	LOFIN	164-34.60	16-06-501	
3.	1/23	LORPINACEL.	164-46-30	15-51-51	
4.	18 58	XHENNY HAEL.	140.3484	15-56-511	
*					

5.

6.

```
DATE
```

Time at entrance to Pearl Harbor =

Time at sunset = Position at sunset =

Miles traveled from entrance to Pearl Harbor to sunset =

Miles traveled from sunset to 2400 hours =

Company S	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
7.0		yo .		
2.		And the state of t		
3.	Market of John State of the Sta			
4.	of the state of th			
5.				
6.				

DATE 12 NOV 1965

Time at summise = 07/6 Position at summise = 14-08.8%; 169-08%

Time at sunset = /853 Position at sunset = /2 - 57.0 N j /70 - 33 W

Miles traveled from 0000 hours to summise = 74.5

Miles traveled from sunrise to sunset = 106.0

Miles traveled from sunset to 2400 hours = 42.0

TIME OF FIX:	TIPE OF FIX	LONGTHUDE	LATITUDE	_
1. 0821	YORAN + CEL	169-16W	.13-57.2 N	
2. 1107	CEL 4 RDF	169-25.8 W	13-58.0N	
3.1305	CEL+RDF	169-38.3 W	13-45.5N	
4.1925	CEL	190-34.7 W	12-54,5N	
5.				
6.	•			

DATE

Time at entrance to Pearl Harbor =

Time at sunset = Position at sunset

Miles traveled from entrance to Pearl Harbor to sunset =

Miles traveled from sunset to 2400 hours =

	TIME OF FUX	TYPE OF FIX	LONGITUDE	LATITUDE
.1.0				
2.			is a many	
3.			Children of the Control of the Contr	
4.	and the second s		The state of the s	Conflored to a
5.				May a sound of the second of t
6.				

DATE 13 NOV 1965

Time at sumrise = 0725 Position at sumrise = $12 \cdot 54.7$ %; $171 \cdot 42.3$ %Time at sumset = 1853 Position at sunset = $13 \cdot 52$ 000; $170 \cdot 48$ %

Miles traveled from 0000 hours to sumrise = 81.2

Miles traveled from sunrise to sunset = 87.0

Miles traveled from sunset to 2400 hours = 43.2

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
7.0	0702	CELESTIAL	171-46W	12.51.8N
2.	110 la		171-25 W	
3.	1923	CELESTIAL	170-45W	13-54.5 N
4.				
5.				
6.				

Time at entrance to Fearl Harbor =

Time at sunset = Position at sunset

Miles traveled from entrance to Pearl Harbor to sunset =

Miles traveled from sunset to 2400 hours =

-	TIME OF FIX	TYPE OF FEX	LONGITUDE	LATITUDE	
1.					
2.		production of the same of the			
3.					
4.					
5.					
6.					

DATE 14 NOV 1965

Time at sumrise = 07/9 Position at sumrise = 15-10.5 N; 169-40 W

Time at sunset = 1901 Position at sunset = 15-02.54 j 171-02 W

Miles traveled from 0000 hours to sunrise = 54.5

Miles traveled from sunrise to sunset = 103.0

Miles traveled from sunset to 2400 hours = 48.3

TILVE OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.0658	CELESTIAL	169.42 W	.15.08.8N
2. 1048	CEL+ D.R.	170.09W	15-29.5N
3. 1922	CELESTIAL	171-04W	15-00 ON
اُنْ ه			
5.			
6.			

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DATE
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Time at entrance to Fearl Harbor

Time at sunset = Position at sunset

Miles traveled from entrance to Pearl Harbor to sunset

Miles traveled from sunset to 2400 hours

(post-firedit) Likely	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
.1				
2.			and the same of th	
3.				
4.				B. Donald
5.				
6.				

DATE 15 NOV 1965

Time at summise = 0729 Position at summise = 15-44.8 M; 172-30.3 W Time at sumset = 1858 Position at sumset = 14-10.5 M; 172-55.8 W

Miles traveled from 0000 hours to sunrise = 69.5

Miles traveled from sunrise to sunset = 73.0

Miles traveled from sunset to 2400 hours

TITY	e of fix	TYPE OF FIX	LONGITUDE	LATITUDE
1. 070	7	DELESTIAL	172-285W.	13-47N
2. 1108	(CEL, + D, R,	170.48.510	13-34.5N
3. 1924	1 0	ELEST. AL	172-51 8W	
4.				
5.				
6.				

DATE

Time at entrance to Pearl Harbor =

Time at sunset = Position at sunset =

Miles traveled from entrance to Fearl Harbor to sunset =

Miles traveled from sunset to 2400 hours =

	TIME OF FIX	TYPE OF FIX	LONGTTUDE	LATITUDE
1.0		And the second s		
2.		P. S.	Mark Congression of the Congress	
3.				
4.	1			
5.				
6.				

DATE 16 NOV 1965

Time at sumrise = 0.729Position at sumrise = $15 \cdot 33 \cdot 5 \text{ W}$, $171 \cdot 33 \cdot 5 \text{ W}$

Time at sunset = 1853 Position at sunset = 15-415 M; 171-56.0 W

Miles traveled from 0000 hours to sunrise = 72./

Miles traveled from sunrise to sunset = 96.5

Miles traveled from sunset to 2400 hours = 48.8

TIME OF FI	X TYPE OF FIX	LONGLIUDE	LATITUDE
1. 0800	D.P.	171-30 41	15-34.5 N
2. 1157	CELEST, AL	171-39 W	15-57 N.
3.1920	MELESTIAL	172-0041	15-34.2 N
1 0			
5.			
6.			

Time at entrance to Pearl Harbor

Time at sunset = Position at sunset =

Miles traveled from entrance to Pearl Harbor to sunset

Miles traveled from sunset to 2400 hours =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE	
1.		And the second s			
2.					
3.					
40					
50/				.,,	
6.					

17 NOV 1965

Time at summise = 0.735Position at summise = 141-40 N j 173-36.8Time at sumset = 1900Position at sumset = 15-46.7 N j 173-89.8

Miles traveled from 0000 hours to sumrise = 71.8

Miles traveled from sunrise to sunset = 96.0

Miles traveled from sunset to 2400 hours = 51.0

TIME OF FIX	TYPE OF FIX	LONGITUDE	LATTTUDE
1. \$8\$3	CEL + D.P.	173-422W	14-45.5N
2.1/13	R.Fix CEL.	174-10.8 W	14-49,0N
3.1928	CEL+D.R	173-28.0W	15-48.4 N
4.			

5.

5.

Time at entrance to Pearl Harbor =

Time at sunset = Position at sunset

Miles traveled from entrance to Fearl Harbor to sunset =

Miles traveled from sunset to 2400 hours =

(Semantical Semantics)	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
.I.,		The same of the sa		
2.		The state of the s	to a market the state of the st	
3.	. /			
4.	And the second second		a north	
5.	and the second second			Company of the
6.	A. C.			

DATE 18 NOV 1965

Time at sumrise = 0.734 Position at sumrise = 16-44.00; 172-05.00Time at sumset = 1848 Position at sumset = 16-47.80; 170-38.80

Miles traveled from 0000 hours to sunrise = 47.5

Miles traveled from sunrise to sunset = 93.5

Miles traveled from sunset to 2400 hours = 35.3

TIME OF FIX	TYPE OF FIX	LONGTIUDE	LATITUDE
1. 0711	CELESTIAL	172-09 W	16-44 NI
2. 1101	CELHRDF	171-40W	16-44.7N
3. 1920	CELESTIAL		16-47.5N
4.	Cope 1 - 1 / / / ma		
5.			
6.			

DATE

Time at entrance to Pearl Harbor

Time at sunset Position at sunset

Miles traveled from entrance to Pearl Harbor to sunset

Miles traveled from sunset to 2400 hours

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.0				
2.	and the second second			
3.				
4.				
5./				
6.	2 16 V 10			

DATE

Time at summise = 0726 Position at summise = 17-10N; 169-54.5 W

Time at sumset = 18+0 Position at sunset = 18-10.2N; 168-59.5 W

Miles traveled from 0000 hours to sunrise = 27.0

70.2 Miles traveled from sunrise to sunset =

Miles travelled from sunset to 2400 hours = 48.2

TILVE OF F	TX TIPE OF FIX	LONGITUDE	LATITUDE
1. 0756	LORAN YRDF	169-51W	17-15.5 N
2. 1119	CEL. 4 PDF	169.35.54	17-30.5 N
3.1911	CELESTIAL	168-57 W	18-14.54
<u> </u>			
5.			
6.			

DATE

Time at entrance to Pearl Harbor =

Time at sunset = Position at sunset :

Miles traveled from entrance to Pearl Harbor to sunset =

Miles traveled from sunset to 2400 hours =

	TIME OF FUX	TYPE OF FIX	LONGITUDE	LATITUDE
7.0			The state of the s	
2.	/		and any arrangement	
3.				
4.				and the state of t
5.				
6.				

DATE 20 NOV 1965

Time at sumrise = 0723 Position at sumrise = 19-45 N j 168-64 W

Time at sumset = 1827 Position at sunset = 20-10 N j 166-545 W

Miles traveled from 0000 hours to sumrise = 61.8

Miles traveled from sunrise to sunset = 87. \$\notine{2}\$

Miles trayeled from sunset to 2400 hours = 40.7

TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1. 0659	CELESTIAL	168-06.5 4.	19.40,5N
2. 1118	CEL. + DIR.	167-49.0W	20.09.8 N
3. 1856	CELESTIAL	166-59.0W	20-09.8N
6.			

Time at entrance to Pearl Harbor =

Time at sunset = Position at sunset =

Miles traveled from entrance to Fearl Harbor to sunset =

Miles traveled from sunset to 2400 hours =

control (CONTROL CONTROL CONTR	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.0		and the state of t	they along the man hand of the street of the	
2.				
3.	/			The state of the s
4.	/			
5.				
6.				

DATE / 21 NOV 1965

Time at sumrise = 07/3 Position at sunrise = 20-34.0N; 165-06.2WTime at sunset = 18/3 Position at sunset = 20-31.5N; 163-27.2W

Miles traveled from 0000 hours to sunrise = 63.4

Miles traveled from sunrise to sunset = 94.9

Miles traveled from sunset to 2400 hours = 45,6

TIVE OF FIX	TYPE OF FUX	LONGITUDE	LATTUDE
1. \$653	CELESTIAL	165-09.0W	.20-23.5N
2. 1/3/	CEL. + LORAN	164-28 W	20-29.3 N
3.152 Ø	CEL & LORAN	163-55 W	
4.1843	CEL + LORAN	163-22.40	20-31.0N
5.			
6.			

```
DATE
```

Time at entrance to Pearl Harbor =

Time at sunset = Position at sunset

Miles traveled from entrance to Fearl Harbor to sunset

Miles traveled from sunset to 2400 hours =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.			The state of the s	
2.			Manufacture of the second of t	The same of the sa
3.	·			The little board and a second
4.				Commented and Contra
5.				
/6.				

DATE 22 NOV. 1965

Time at sumrise = ϕ 7 ϕ 1 Position at sumrise = 20-23.2M; 161-44.3 ω

Fime at sunset = 1755 Position at sunset =

Miles traveled from 0000 hours to sumrise = 5/8

Miles traveled from sunrise to sunset = 86

Miles traveled from sunset to 2400 hours =

TIME OF FIX.	TYPE OF FIX	LONGITUDE	LATITUDE
1. 0633	CELEST: AL	161-47,5W	20-23.2N
2. 1005	CEL & LOBAN	1101-18 W	20-24 N
3. 1/1/	CEL & LORAN	161-09.5W	20-23.5N
<u>ैं</u>			
5.			
6.			

SMITHSONIAN GRID

Survey No. 25

PRELIMINARY REPORT AT-SEA SURVEY November 1965

This report summarizes the results of the 25th survey of Smithsonian Grid I, conducted during the period 8-23 November, 1965. Smithsonian personnel included Kenneth Amerman, Paul W. Woodward, Brian A. Harrington and Jeffrey Tordoff. Excellent cooperation was extended by the officers and crew throughout the trip.

Diurnal observations covered 166 hours and 1316 miles, of which 69.4 hours and 562 miles were within the Grid during the period 12-17 November. An additional 25 hours of nocturnal observations were conducted within the grid, 7.5 of them while the ship was drifting 20-25 miles NW of Johnston Island on the night of Nov. 18-19. Fourteen specimens were collected and 8 blood samples and 13 parasite samples were taken. No banded or tagged birds were collected or seen.

The normal cruise pattern was followed with the exceptions that Johnston Island was bypassed on the downward route and extra time was utilized in running north toward French Frigate Shoals from Johnston. The seas were exceptionally calm throughout the trip until November 20 when the seas became very rough and winds of 20-30 knots were encountered, emanating from a large storm southeast of the Hawaiian Islands.

This storm may have had some effect on several species including the migrating Slender-billed Shearwaters and Juan Fernandez Petrels, perhaps blocking or diverting some of the former species and shifting some of the latter somewhat southward. It may also account for records of three accidental species at sea, a Pintail Duck, Short-eared Owl and Japanese White-eyes, through this is less likely.

Nocturnal observations were held mainly to see if there were any major differences in species or numbers after dark and during the day. This proved not to be the case and observations were generally not run throughout the night. Small numbers of Sooty Terns were seen or heard, including several immatures. As in daylight, this species was confined to the eastern half of the grid. The complete lack of terns on the night of November 18-19, within 20 miles of Johnston Atoll, is good evidence that this species has for all practical purposes completely left the immediate vicinity of the island.

In general, the occurrence of most species groups and of total birds resembles the results obtained in 1963 rather than 1964. This is true for the Shearwater-Petrel group, mainly due to the migrating shearwaters, and for Terns and Tropicbirds. Boobies were less numerous this month this year; frigates and storm petrels were more numerous than in previous years.

The exceptionally smooth seas much of this month probably allowed some birds, notably the migrating shearwaters and the storm petrel, to be observed at greater distances than usual. This would mean that the estimated populations are perhaps higher than they should be. On the other hand, fairly

heavy swells probably resulted in some of these same birds passing unnoticed. Skies were overcast many days, sometimes enhancing observations by increasing the contrast between birds and sea, sometimes working to just the reverse effect.

TABLE 1 Summary of diurnal observations within the Grid, November 1965.

Date	Birds	Sightings	Species	Flocks	Miles	Hours	Birds/Mi	<u>le</u>
12 Nov. 13 14 15 16 17	212 73 115 42 50 1298	34 28 57 40 46 169	6 10 9 8 8	10 2 3 0 0 77	106 87 103 73 97 96	11.7 11.5 11.7 11.5 11.4 11.6	2.00 0.84 1.12 0.58 0.52 13.52	
Totals	1790	404	16	92	562	69.4	3.19	
Average	298	67	8	15	94	11.6	3.10	

TABLE 2 Diurnal density of species groups within the Grid, November 1965.

Species Group	No. Birds	Birds/mi ²	Estimated Population/	% Total Birds
Shearwater-Petrel	1587	1.41	70,500	88.7
Tern	114	0.07	3,500	6.4
Tropicbirds	35	0.03	1,500	2.0
Boobies	2	0.002	100	0.1
Frigates	27	0.01	500	1.5
Shorebirds	5	0.009	450	0.2
Storm Petrels	12	0.02	, 1000	0.6
Miscellaneous	7	0.006	300	0.4
Total birds	1790	1.56	77,850	100
Birds in flocks	1543			86.2

TABLE 3 Diurnal abundance of birds by Grid Quadrants, November 1965.

	North	East	South	West	
Birds	50	286	128	1326	790
Miles	97	177	143	145	762
Rirds/Mile(linear)	0.52	1.62	0.90	9.14	

TABLE 4 Summary of Nocturnal Observations, November, 1965.

Date	No. Birds	No. Sooty Terns	No. Hours	No. Miles
Nov. 11-12	34	27	8.5	77
Nov. 12	8	7	5.1	46
Nov. 17	9	0	3.5	32
Nov. 18-19	2	0	7.7	Drifting

TABLE 5 Species identified during nocturnal observations, November, 1965.

Sooty Tern	34
Juan Fernandez Petrel*	1
Slenderbilled Shearwater*	8
Leach's Storm Petrel	1
Golden Plover*	1
Tropicbird sp.	1
Bird (unidentified)	7

^{*} only between sunset and dark

TABLE 6 Summary of diurnal observations outside the Grid, November 1965.

Date	Birds	Sightings	Species	Flocks	Miles	Hours	Bird/mile
8 Nov.	148	100	10	1	43	4.1	3.44
9	138	94	12	2	70	11.3	1.97
10	205	82	11	3	97 25	11.5	2.11
11	184	59	11	8	89	11.5	2.07
18	837	140	11	48	94	11.3	8.90
19	139	55	9	9	70	11.3	1.99
20	200	93	11,	9	87	11.1	2.30
21	338	141	11	9	94	11.0	3.60
22	143	70	13	2	86	10.9	1.65
23	19	13	_5	0	24	2.7	0.79
Total	2349	847	28	91	754	96.5	3.12

TABLE 7 Species observed At Sea, November 1965.

Species	No.	Birds/mile	No.	Inside Grid Birds/mile
Black-footed Albatross	11	0.01	O	-
Wedge-tailed Shearwater	145	0.19	0	•
Slender-billed Shearwater	1277	1.69	1477	2.63
New Zealand Shearwater	1	0.001	0	-
Pale-footed Shearwater	3	0.004	0	-
Newell's Shearwater	1	0.001	1	0.002
Dark-rumped Petrel	3	0.004	0	-
Juan Fernandez Petrel	145	0.19	30	0.05
White-necked Petrel	5	0.007	0	+
Black-wing Petrel	21	0.03	4	0.007
Bonin Island Petrel	3	0.004	1?	0.002
Kermadec Petrel	8	0.01	2	0.004
Leach's Storm Petrel	41	0.05	12	0.02
Red-tailed Tropicbird	20	0.03	33	0.06
White-tailed Tropicbird	15	0.02	2	0.004
Blue-faced Booby	ź	0.007	1	0.002
	12	0.01	1	0.002
Red-footed Booby	2	0.003	0	2
Brown Booby	17	0.02	27	0.04
Greater Frigatebird	12	0.01	5	0.009
Golden Plover	1	0.001	Ó	-
Ruddy Turnstone	161	0.21	112	0.20
Sooty Tern	101	0.005	0	-
Common Noddy	~10	0.01	4	0.007
Fairy Tern	10	0.001	ī	0.002
Skua	19	0.03	0	-
Pomarine Jaeger	1	0.001	0	-
Pintail Duck	0	0.001	1	0.002
Short-eared Owl	2+	0.003	Ō	
Japanese White-eye	87	0.12	32	0.06
Pterodroma hypoleuca		0.05	1	0.002
Pterodroma externa	35	0.09	-	• • • • •

TABLE 8 Birds collected, November 1965.

Species		Inside Grid	Outside Grid
Red-tailed Tropicbird Blue-faced Booby Golden Plover Red-footed Booby Juan Fernandez Petrel Leach's Sterm Petrel		5 1 0 0 0	2 1 2 1 1
	Total	6	8

Species Accounts

Black-footed Albatross

The first individuals were observed November 20 at about 20°N - 168°W, approximately 250 miles southwest of French Frigate Shoals. A few were seen each day thereafter, with no more than two present at once. Most individuals followed only briefly but three remained for periods up to 6 hours.

Wedge-tailed Shearwater

east of 168°. Of the total of 145, 112 were recorded on 21 and 22 November and 31 were seen between Oahu and the grid. Nearly all the sightings between Oahu and the grid were of single birds or pairs while those on the return route included many small groups and a few mixed flocks. A large number of individuals were moving south or southeast. This, coupled with the absence of the species west of 168°, may indicate that at least some of the birds now finishing their breeding season winter somewhere between central Pacific breeding grounds and South America.

Slender-billed Shearwater

The separation of this species from similar Sooty Shearwater in the field continues to be a great problem. Both species may resemble each other under various combinations of light and sea. Nearly all the birds seen well this trip possessed the smoky underwings of the Slender-bill. Those few which had the bright white underwing linings characteristic of the Sooty Shearwater may have belonged to the small percentage of Slender-bills which also show this characteristic. It appears that only a small portion of the

migrating shearwaters passing through the central Pacific in fall are Sooty Shearwaters. However, since the grid was not surveyed during September and October, it is possible that larger numbers of that species were present there then.

Nearly 100% of the birds observed were flying due south. As the birds increased in numbers so did the numbers of flocks, ranging in size from 5 to 55 birds with an average of about 14. Many of the flocks spent much time milling about along their flight path, indicating that they might be young birds and that the young pass through the area primarily at the end of the migration period.

Approximately equal numbers of this species were seen within and outside the grid. However, the birds were far from evenly distributed, more than 2000 of the total of 2754 being observed on 17 and 18 November. Another smaller concentration was encountered on November 10-12, accounting for 359 of the remainder. Each of these areas was partially within the grid. Thus, of the total of 1477 present in the grid, 1269 were recorded on the westernmost leg November 17, while low numbers were obtained on the inner four legs.

There thus appears to be a general gradient of increasing numbers from east to west, which is consistent with the even higher numbers recorded in the Howland-Baker area in September and October. Approximately equal numbers of birds were recorded between 167° and 170° over a week's interval. However, the large numbers of birds observed on the 17th and 18th were directly north of areas which had very few birds only one or two days previously. Therefore, the apparent local fluctuations and perhaps even the apparent gradient may

only on the westernmost grid leg, equally large numbers may have been present on a broad front throughout the entire grid on November 17. The results obtained by the USNS Shearwater in the same areas a few days apart from the present observations should support one view or another.

These large numbers may represent one "wave" of migrants which departed from the Arctic waters at approximately the same time. Another possibility is that numbers of birds accumulated to the north of a large storm center in the Hawaiian Islands area or detoured around it to the west. Though the effect, if any, of weather conditions on oceanic species is presently unknown, it is conceivable that large storm fronts might be avoided, especially by migrants.

New Zealand Shearwater

One individual believed to be this species was flushed from the water on November 20 in the vicinity of 20°N - 167° W.

Pale-footed Shearwater

Two separate individuals were recorded on November 20 in the same area as the New Zealand Shearwater. Another was seen on November 11 about 180 miles NE of Johnston. None were recorded in the grid. Both these New Zealand species have been recorded previously in the area in fall, always in very low numbers.

Newell's Shearwater

One bird was seen the first day about 20 miles off Oahu. Another was seen in the grid on November 14 in a small flock of Sooty Terns and Juan Fernandez Petrels. Numbers are comparable with previous November records.

Dark-rumped Petrel

Three sightings were obtained on November 22 approximately 120 miles SW of the island of Kauai.

Juan Fernandez Petrel

This species was nearly five times as numerous outside the grid as within this month. Greatest densities were recorded between 163° and 168° above 20°. More than half of the 145 observed outside the grid were seen on November 21 in the middle of this area. An additional 28 Pterodroma externa recorded in this area were probably nearly all of this race. This concentration may have resulted from the storm in the area. Within the grid, 24 were observed in the eastern half, only 6 in the western half. Most sightings were of 1-4 birds though a few were seen in feeding flocks with terms.

The northward movement of this species in fall seems to be correlated with the decline in the local Wedgetailed Shearwater populations, the Pterodroma seemingly moving into areas nearer the islands where the Wedge-tails are most numerous during their breeding season. The similarities in food requirements, morphology and feeding habits between the two groups suggest that competition between them could be a factor in this seasonal distribution, the less numerous Pterodromas being limited to areas of comparative low Wedge-tail density, then moving into the more food-rich areas closer to the islands as the Wedge-tails vacate them.

White-necked Petrel

Five were seen, all outside the grid, all but one north of 20° and one within 25 miles of Oahu.

Black-winged Petrel

A total of 21 outside the grid and 4 within the grid were identified. An additional 119 Pterodroma hypoleuca were seen, probably nearly all of this race, 32 within the grid and 87 outside. This species was most numerous south and east of the area of high density of P. externa group, from Oahu to 16°N 167°W. Nearly all sightings were of 1-4 individuals, the majority of them single birds. Almost none were in mixed flocks. Several individuals were recorded on November 14 in the grid which had nearly all dark underwings. Distribution within the grid was random.

Bonin Island Petrel

Three individuals were identified to this race of Pterodroma hypoleuca outside the grid. Two seen together on 22 November were flying NE. single bird recorded in the grid on 17 November was not seen well enough to distinguish it from Pterodroma leucoptera with certainty. It was flying NW.

Kermadec Petrel

The distribution of this species resembles that of the Juan Fernandez Petrel this month. One or two were recorded each day after leaving the grid, one within 30 miles of Oahu. Two were seen in the grid, on November 13 and 14, the latter individual in a feeding flock of Juan Fernandez Petrels and Sooty Terns. Numbers are comparable with those of the previous two years for the same areas, the slightly higher number outside the grid reflecting a slight concentration in an area not previously sampled at this time.

Leach's Storm Petrel

While a few of the white-rumped dark storm petrels observed may have been Harcourt's, which may be nearly indistinguishable from this species in the field, probably the greatest majority were Leach's Storm Petrels.

Fairly high numbers were recorded in contrast to sparse records in 1963 and 1964. All but one sighting were of single birds. Densities were highest between Oahu and the grid, lowest within the grid.

One bird, attracted and dazed by the lights, was netted from the stern while the ship was drifting near Johnston Island the night of November 18-19.

Red-tailed Tropicbird

Numbers within the grid were comparable to those of 1963 while numbers outside were noticably higher than in either previous years. All sightings were south of 20°, with the highest daily totals below 16°. Thus, 24 of the 33 within the grid were south of 16°.

Seven birds were collected, of all age groups; six were males. Five birds were collected within the grid (south of 15°); these weighed from 100 to nearly 300 grams more than the two collected north of the grid (above 19°). This may indicate the presence of two different populations in the two areas or may reflect a difference in food supply.

White-tailed Tropicbird

Numbers paralleled those of 1964 within and outside the grid. All but three individuals were recorded above 18°. Two were seen in the grid on the 12th and one was observed about 15 miles south of 18°. Eight were seen on November 9.

Blue-faced Booby

Numbers are nearly identical with those of 1963 and 1964. Two immatures were collected, one in the grid. The one collected to the north weighed much less (600 grams) than the other, similar to the Red-tailed Tropicbirds.

Red-footed Booby

This species appears to be very variable in numbers from month to month and year to year. About as many were recorded outside the grid this month as in October 1964 and November 1963. Only one was seen within the grid this month, a subadult on November 16 about 130 miles SW of Johnston. Of the 12 present outside the grid, 5 were recorded as immatures and 2 as subadults. Five occurred within 30 miles of Oahu and five more were within 250 miles of Oahu and Kauai.

One adult which flew aboard after dark November 8 was captured, blood-sampled and released.

Brown Booby

Two immatures were seen outside the grid. One occurred about 240 miles SW of Oahu. The other about 180 miles east of Johnston.

Greater Frigatebird

As with the Red-footed Booby, no definite pattern is discernible from year to year in the occurrence of this species this month except that the largest numbers are recorded at this season. Nearly twice as many were present in the grid as in 1964. Non-grid numbers were comparable to those of 1963.

It is likely that the increase in numbers away from islands at this time of year is due to birds having to range farther for food. Several birds were actively feeding by themselves. It is not known to what extent this depends upon the absence of concentrations of the abundant breeding species near the islands, in terms of what proportion of the frigate populations preys upon these species and what proportion of individual frigate's total food is pirated from other species.

Golden Plover

Numbers were more comparable with 1963 than 1964, supporting the view that the Slender-billed Shearwater migration also paralleled 1963.

Two individuals were collected between Oahu and the grid. Neither was molting. Many circled the ship several times, one landing after dark on November 17 which avoided capture.

Ruddy Turnstone

The single sighting was obtained on November 22, about 175 miles W of Oahu.

Sooty Tern

Total numbers were nearly identical to those of 1964 but the results in the grid more closely resemble 1963.

Outside the grid birds were encountered between 160° and 165°, to the east and northeast of Johnston Atoll. The decline from 40° per day on November 9 and 10 to about 30 per day on November 21 and 22 may reflect the departure of birds from the area, though it may be too small a difference

to be significant. Of the total of 161 birds outside the grid, 115 were in seven flocks on these four days.

Within the grid, nearly the entire total (108 of 112) were seen on the eastern three legs, mainly to the south of Johnston Atoll. Of this 108, 88 were in flocks.

Nearly all of the birds not in flocks were flying S or SE, particularly on November 9. This, in conjunction with the observed distribution, suggests that at least some of the Hawaiian and Johnston Sooty Terns may winter somewhere to the south and east toward South America.

Common Noddy

No change in status over previous years was noted this month.

Fairy Tern

Slightly greater numbers were noted both within and outside the grid than in the previous two years. Three of the four in the grid were in one feeding flock of Sooty Terns and Juan Fernandez Petrels on the 13th. Six single sightings were obtained on November 22.

Pomarine Jaeger

All but one were within 50 miles of Oahu, 6 the first day out and 12 the last day. The remaining individual was seen on November 21.

Skua

One was observed in the grid November 17, 270 miles SW of Johnston and another occurred November 19, 40 miles north of Johnston. Both birds were flying south, which at this season may indicate that they are returning to a point of origin in the Antarctic rather than in the Arctic.

Pintail Duck

A female or immature of this species was seen flying south on November 11.

Small numbers of this species have been recorded by the Pacific Project

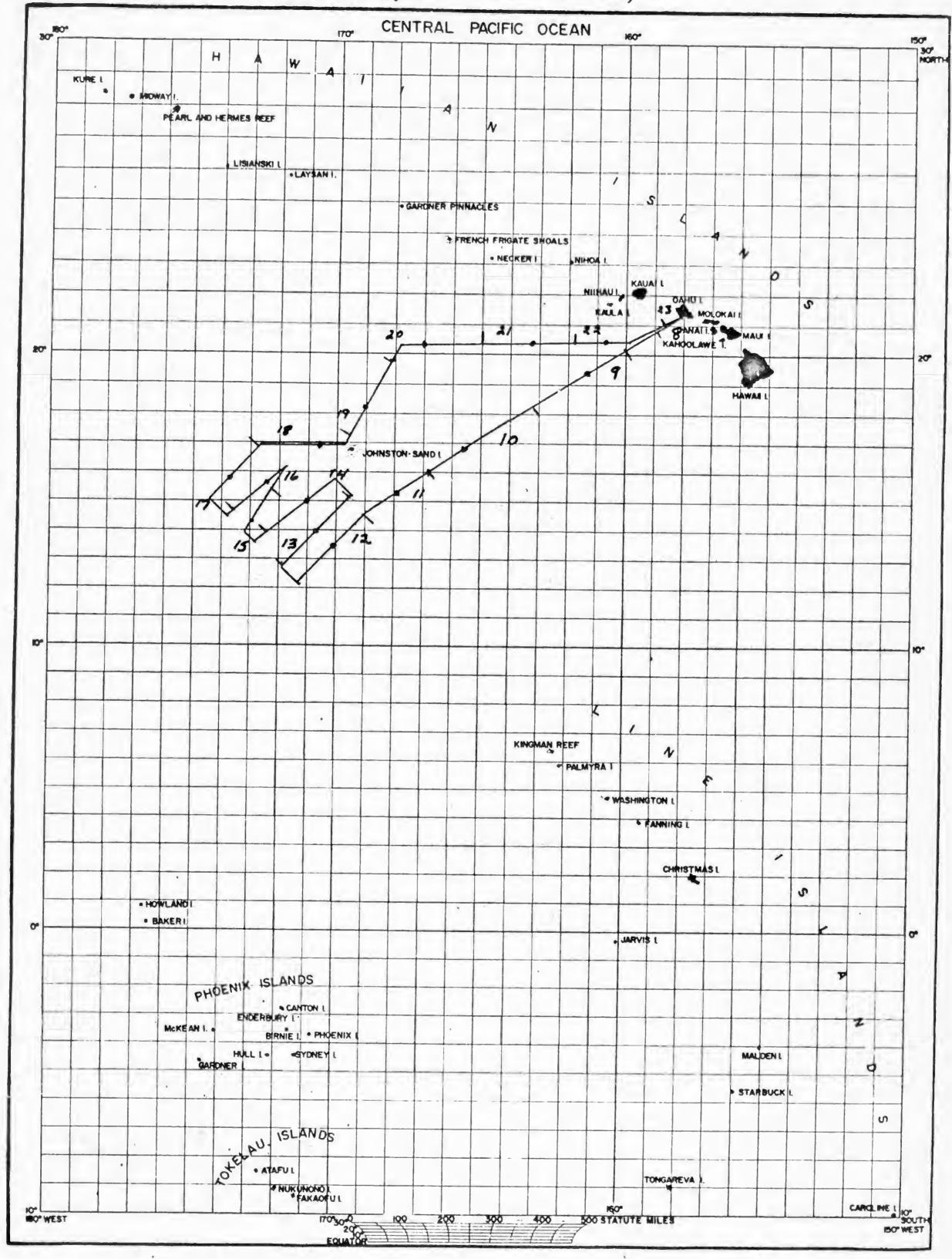
from several islands throughout the central Pacific, including Sand-Johnston.

Short-eared Owl

One individual was observed clearly flying near the ship for about one minute in the grid on November 16, about 130 miles west of Johnston Atoll. This species has been recorded by the Project on Johnston.

Japanese White-eye

At least two individuals flew over the ship on November 9, about 250 miles SW of Oahu. A group of unknown size was believed to have been heard earlier the same day but were never observed. Several times the next day one was believed heard and some of the ships' crew reported that one might have been aboard, perhaps one from the previous day.



SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA CLIMATOLOGICAL DATA

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SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA CLIMATOLOGICAL DATA

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1900	-	778*71 30		1-											- 72
2000			July 1	•	,			1				100			
2100	/15-43	1													7.0
2200	1 -														
2300		1715-2-00								The Common of th		7	3		- 10
2400													- 1=		

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA CLIMATOLOGICAL DATA

DATE

- 3	77 6		, .	1										
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- 3	- 1/		1777	,										1/3 -
- 3				20011	•						/ /			0
	- Lo .		-	1 71 71						,		1 4		
- 1	- 10		1								'			
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				1								/	9	
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														• 1
	4							1						Section 1 Let \$10 be
	-													MUU)
										8			100	
1/	1.5													-1
1														
				200									150	20030
				7,46 = 1									140 (2)	5-11 - 1
				1005 :							,		100	50
							1							10 L
														•
-				11										
				-										
251				1										1021-1
					1005 1006.6 1006.6 1007.5 100	1005 1006.5 1007.5 100	1005 1008.1 1008.1 1000 1 1000 1 1000 1 1000 1 1	1008 1008 1008 1000	1065 1066	1005 1006 10	1005 1006 1000	1005 1008 1008 1000 10	1008 1008 1008 1000	

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA CLIMATOLOGICAL DATA

DATE

IME	LAT	LONG	PRES WEA	VIS	SLP	DRY B - DEW PT	HUM %	TL SKY.	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SI
0100	W	17.6			11075					H- 50			/	
200	• •	6 [©]			1789									
300	-	•			1,5									
+00														
500	- 7	1//11 11			1								, , , , , ,	
000	٠	184 - V			1668									•
700					11-13/-1									
00					10.1.								!	
00	•				1.0						4.0			*
000					15105									
.00	.=	/i												1/2 //
200		12			1617.5									
300					13,5									7.7.7
100	11 - 11 -	73		· ·	3/2 5 /									
500	1	3.											/	-
500	·		2		15.									
700					15115									1
300					100									
900	15	-	,											-
000					15,-9,1		,							•
.00	14-060				15.37									
200	// <u> </u>	•			17:1.1.7									
300	111 - 317				(1) in E									t== ==
+00	(- Y	• •								000				

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE/50 /3/10 (Fig. 1)

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE	S/SPD.
0100					1010.7										,	<i>/</i> 41-
0200					1023											14
0300		15 4 EV.			1009 1											
0400	10 - 5-1	-0			1000				1							
0500					1000											
0600	1	/8			1551											
0700	11-14-2	1 7 00			1016 2											
0800					18/18 5											
0900					1011.7											
1000	/ = -				1611. 7											
1100					15114										,	
1200	3 4/5				15/12											9
1300					1010.5											
1,400	-				1501.9											
1500	•			1,	10095		v								33	
1600	V = 9		and Carried and American State (Carried State Carried Stat		1501										33	10
1700					021											10
1800					(· · · ·									-		
1900					1500				,							
2000	•	152 - 52 16							1							
2100	R-12 1	1/2													•	
2200					1-1-3											
2300	1 - 2	(X4 = J			15 7 2											
2400		/		-	1611 7										3427	

REMARKS:

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA CLIMATOLOGICAL DATA

DATE

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	-WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD
0100	10-66-1	1 = 2 - 1 7 - 2			10/7 :										2000
0200		132-17-2			19.15										(V)
0300		0.000			1.1.7										
0400					1.1.5										M4/4
0500	13 - 12 -														1.74.3
0600	¥1				13 10 3										SW/1 18
0700					10100										MANER HAR SAME
0000					10/2 7										10
0900	43	30			- H 7										344
1000	50	30													Service Repaired
1100	61.	32													1
1200	11. 2	171-33514													
1200	1112. 11	171.34 W													- 32
1400	111-29 N	171-31 0			medianery control for 101 methyles						/ /				
1500		19 79 W		11											
1600	15-51-11	1-1115W													
1700	15 11	171.532													
1800	1 < - 4/1 //	11.1-65 W				7							-		
1900	15-21111	191-58 W													
2000	18-36N	179-051													
2100	15 21	172.13:													
2200	15-25 N	172.216													
2300	16-19/	172-301													391 H = 1 0 0 0 1 0 0 0 0
2300-	15-14N1	172.38 W												5	

REMARKS:

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA CLIMATOLOGICAL DATA

DATE

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP	COURSE/SPD
0100	15-39 N	172-43W	41 4												-	- 10
0200	15-04N	72-5/10														•
0300	14 57 N	173 02 1														
01:00	101.57 F	173 0912														7/
0500	14. 48 Ni	113 164														
0600	14-42 NI	173 25W														
0700	111-3611	174 - 33 W													= ()	4
0200	14-451	173-42 W							1						3//6	~
0900	121-511	173-5/16														
1000	14-571	173-584L													, .	1
1100	15-05N	174.071														
1200	15-10 Al	1711 1211							0							
1300	15-18N	1-4-084														
1.400	15-241	14 000														
1500	15-28 N	173-500														
1600	16-331	11:12 - 21:11														
1700	15-38 M	1.1 34 7														
1800	15. H. A	173-35W														
1900	15-47 11	173 -30W														
2000	15-5211	1 0														
2100	110-001	173 154														
2200	10-1011	173-04W			1017											
2300	11,-19 11	170 55 10														
2400	11-261	172 47 0													1	
	REMAR	KS:								•						

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA CLIMATOLOGICAL DATA

DATE

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	THUM %	TL SKY	OPA SKY	_ WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	111-35 N	172-42 W		•											
0200	112-27 11	172 37W		12	/										
	111-11211	172-33 W													
	14- 13 V	172.284													
-	16-431	173-2HW				5									
The second secon	14-45 N	172-170													
0700	11,-815 N	172-114													
0800	31-2/6/2	10-2-124													
0900	11 114 Al	171.53 W													
1000	110 - HH N	171-454													
1100	16 HEN	171.374													
1200	16-45 N	171-311													
1300	16-46N	171-216													
1400	No Mina	171-11-11	3	•											
1500	1-21/21	1-11-15/11			3, 5										A 4 m
1600	16-1152	170-56 W		10	1	5 -									0
1700	11,-11/001	170-174			15/10	9 .									
1800	112-1171	170-396			.1										
1900	10 HBN	170-310		1 0		6.1					-				OMS
2000	11.191	170-2414	fall# Will		1				2						
2100	1.5011	170-134		1 0					3						
2200	16-51 N	170 -01 2			10	,			3		•			-	6011
2300	11c-52 Al	1119-56 W			1				1						
2400	110-621	170-000	1		, .					1					

REMARKS:

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA CLIMATOLOGICAL DATA

DATE

TIME	T,A.T	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
	16.51 N	169-55W							2		1		٥	-1	
0100	18.516	4 40							3		0				
0200	14.51 M	1109-55							67					1	
0300	110 51 1	1119-59 2				1								7 17	
0/100	18-5:11	170 - 30											1		
0500	16-51N	170 - 03111				1		1							
0600	17 16	167-51													C ·
0700	17-16	47													11/
0800	20	The second secon												•	
0900	= 1	43								1			-		
1000	25	39									-				
1100	17.32	169.35			-										
1200	3/	3.6								1			-		
1300	52	1							1					220	16
1.400	97			-											
1500	42	15			-		 								
1600		10					1								
1700	12	5													
1800	47						-								
1900	13.14	168.57									-		-		
2000					-						4				
2000															
5500												-			1
2300															
5400														1	
	REMAR	RKS:													

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 20 /10 65

		TONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WAIND	
E_	LAT	LONG		T			T								
00															
0															
0															
0															04 10
0															04/10
0	19-110 N	168-67 4													0 + 1 10
0		02													4 / 11
0	47	167-57						Control of the Contro	The same of the sa						2 0
0	54	-52			and the same of th										04/10
0	6/	167-45		COLUMN TO SERVICE SERV											09/03
0	20.08	147													09/05
0	0.6	72								Secretary of the second					09/05
0	19.5	36								NAMES OF THE PERSON NAMES					00000
0	2/	30													09/ 5
0	1 1	24													0 1
0	01	18													19/06
00	1.7	12													19/10
00	P	06	-30-W			and the same of th									-
OC	20-10	166 21													1
00		53													70
00		47							And the state of t						
00															
00															
00				1					1						

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA CLIMATOLOGICAL DATA

DATE

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COU	JRSE/SPD
2200	20-161	166-034			1,5	p					,			. 7 .	7	10
0200	20 181	115-51.				¢			,		•					
0300		165-39 W			/				,		,			1		
-	20 31 N	1,5.301		1											•	
500	2 2 2 4	115-27 W			•								/			
600	0-	110= - 6 !			1 •	·			1				1 /			
700	23	11,5-084		• 6		4)							7	<u> </u>		
-	30-251	Hell Fall			1											
-	20-01	11.6		•												/
000	en a · A	1104-434			11-11-11											
	20-28N	1101 - 571			1										1	
	20.291	12.61 3011				J									-	
300	213001	1641 17W			12.											
400	ا المراسخ المن	1101-082														- //
500	20-80N	11: 5812			•											
600	20-30N	16-31-56-10				200									,	
700	20-31N	11-3-37 W				17									7	
800	20-311	143-2410												,	•	
900	20 311	163.17 1														
000	20 311	11= 11 W			,										-	
100	20-301	163.0341														
200	20 - 80 W	1102.651			•									,	- ,	
300	30-281	162 4601			'											
400	120-27N	162-38W											1	!		

REMARKS:

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA CLIMATOLOGICAL DATA

DATE

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP	COURSE/	SP:
0100	20-17/	162 30 W	-	1 00	7.							-		1.3.2			1
0200	20-201	1100 20 W									å	4	,		777		e
-	20-20-4	1100-14/11	,		10154	7.17							i				1
	90-25N	167-06-1	0								1.3		107		512		0
	30-HIN	151-5911		p 4					7								
	= 0 - 348	1101 - 5012		/		77			4						•		1
	20 23N	11.1 - 41.114	11								1	1					71
300	20-501	لفا الله الله		1					1 4			7.			F 1/2		7
	20-234	161-276	1/1		1				· ·							•	
1000	20-03/	160-190	RAIN .		1 ^	, ,			1		A 200			9			
	30-334	151210			7 , 0 1	4					0:5				£7.674	0	J
1200	20-2411	161-02	1			l								-7/2			1
1300		168 54															
1.400	?	1/2															
1500	., 3																
1600	36	3.0															
1700	57	4. 2															
1800	12	/															
L900	15													-	-		
5000	4 6	159-59															
2100	-1	553															
200	3 y	- 2													-		
2300	= 1	5-															
2400	21-00	- L													1		